

=> d his

(FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)

FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001

L1 STRUCTURE uploaded

L2 4 S L1

L3 119 S L2 FULL

FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001

L4 6 S L3

L5 1 S L4 AND OHKAWA, S?/AU

L6 5 S L4 NOT L5

FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001

L7 STRUCTURE uploaded

L8 0 S L7

L9 135 S L8 FULL

FILE 'CA' ENTERED AT 17:24:35 ON 14 MAR 2001

L10 8 S L9

L11 2 S L10 NOT L4

FILE 'CA' ENTERED AT 17:25:21 ON 14 MAR 2001

L12 8 S L9

FILE 'CAOLD' ENTERED AT 17:25:37 ON 14 MAR 2001

L13 0 S L9

=>

---Logging off of STN---

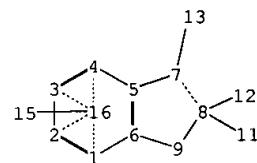
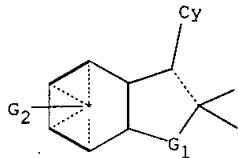
=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.31	303.15
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.48

STN INTERNATIONAL LOGOFF AT 17:26:03 ON 14 MAR 2001



chain nodes :

13 15

ring nodes :

1 2 3 4 5 6 7 8 9

ring/chain nodes :

11 12

chain bonds :

7-13

ring/chain bonds :

8-12 8-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9

exact/norm bonds :

5-7 6-9 7-8 7-13 8-9 8-12 8-11

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

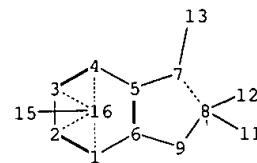
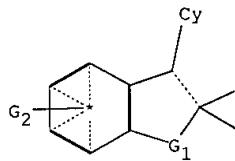
containing 1 :

G1:O,S

G2:O,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
12:CLASS 13:Atom 15:CLASS 16:CLASS



chain nodes :

13 15

ring nodes :

1 2 3 4 5 6 7 8 9

ring/chain nodes :

11 12

chain bonds :

7-13 8-12 8-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9

exact/norm bonds :

5-7 6-9 7-8 7-13 8-9 8-12 8-11

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

G1:O,S

G2:O,S

Match level :

 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
 12:CLASS 13:Atom 15:CLASS 16:CLASS

Connecting via Winsock to STN

Trying 3106016892...Open

```
Welcome to STN International! Enter x:x  
LOGINID:sssptal612BXR  
PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2
```

* * * * * * * * * * * * * Welcome to STN International * * * * * * * * * * * * *

| | | | |
|--------------|----|--------|---|
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| NEWS | 4 | Oct 27 | SET ABBREVIATIONS and SET PLURALS extended in Derwent World Patents Index files |
| NEWS | 5 | Oct 27 | Patent Assignee Code Dictionary now available in Derwent Patent Files |
| NEWS | 6 | Oct 27 | Plasdoc Key Serials Dictionary and Echoing added to Derwent Subscriber Files WPIDS and WPIX |
| NEWS | 7 | Nov 29 | Derwent announces further increase in updates for DWPI |
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FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001

=> file reg.

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.15 | 0.15 |

FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001
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STRUCTURE FILE UPDATES: 13 MAR 2001 HIGHEST RN 327020-77-9
DICTIONARY FILE UPDATES: 13 MAR 2001 HIGHEST RN 327020-77-9

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

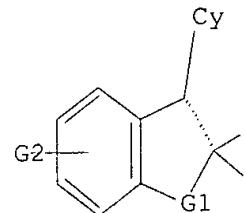
Structure search limits have been increased. See HELP SLIMIT
for details.

=>
Uploading 09445193.str

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS
L1 STR



G1 O,S

G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 17:20:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1213 TO ITERATE

82.4% PROCESSED 1000 ITERATIONS

4 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 22172 TO 26348
PROJECTED ANSWERS: 4 TO 229

L2 4 SEA SSS SAM L1

=> s 12 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 133.25 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 17:20:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 23460 TO ITERATE

100.0% PROCESSED 23460 ITERATIONS 119 ANSWERS
SEARCH TIME: 00.00.04

L3 119 SEA SSS FUL L1

=> file ca

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 133.56 | 133.71 |

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FILE COVERS 1967 - 8 Mar 2001 VOL 134 ISS 12
FILE LAST UPDATED: 8 Mar 2001 (20010308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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=> s 13

L4 6 L3

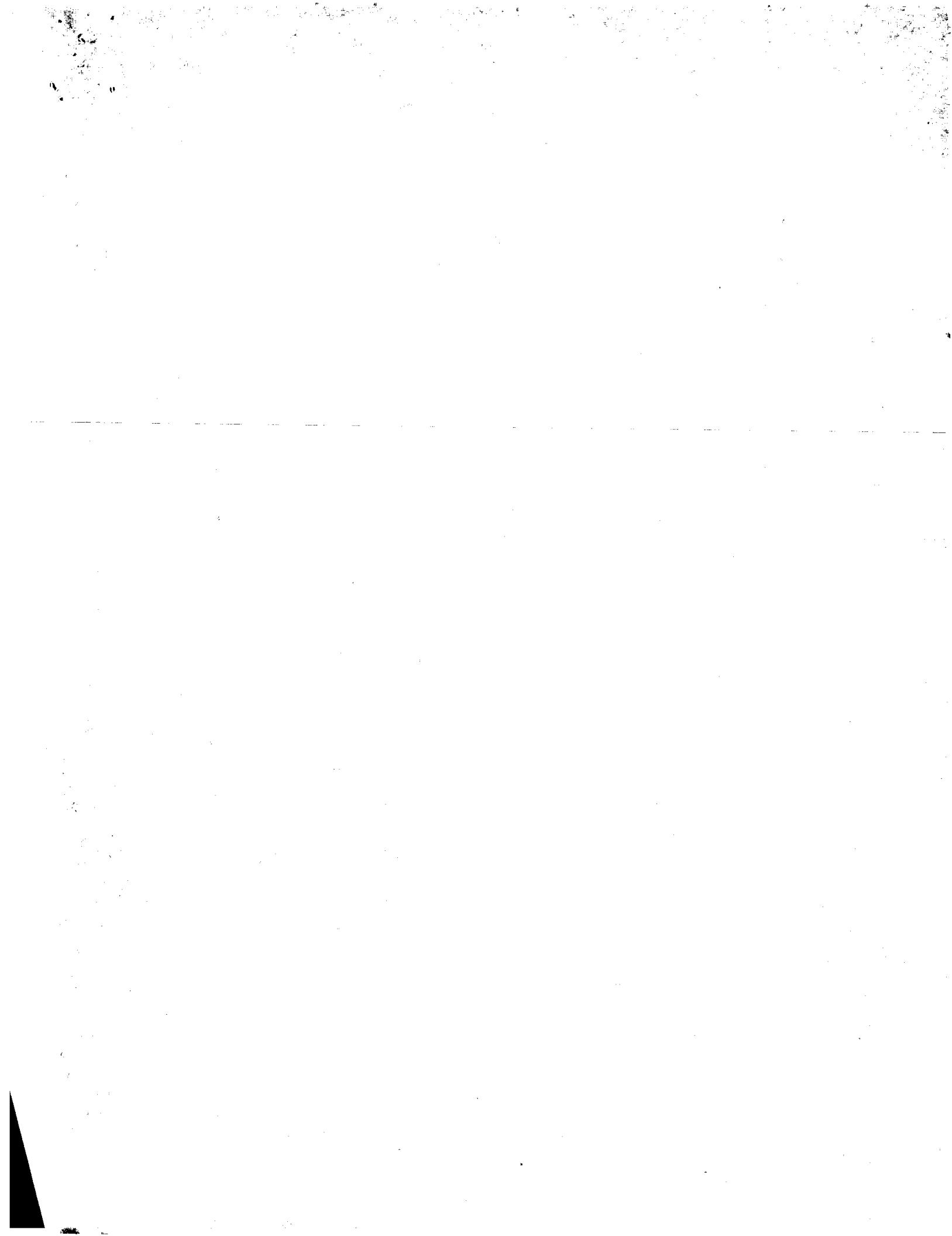
=> s 14 and ohkawa, s?/au

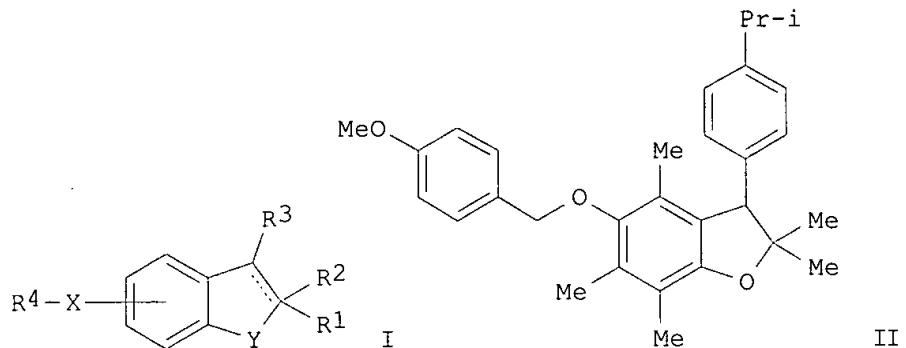
235 OHKAWA, S?/AU
L5 1 L4 AND OHKAWA, S?/AU

=> d 15, ibib abs hitstr, 1

L5 ANSWER 1 OF 1 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 130:38285 CA
TITLE: Benzofuran derivatives useful for suppressing neurodegeneration.
INVENTOR(S): Ohkawa, Shigenori; Setoh, Masaki; Kakihana, Mitsuru; Okura, Masahiro
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 132 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|---|-----------|-----------------|----------|
| WO 9855454 | A2 | 19981210 | WO 1998-JP2482 | 19980604 |
| WO 9855454 | A3 | 19990304 | | |
| W: | AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW,
HU, ID, IL, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN,
MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US,
UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| RW: | GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, ML, MR, NE, SN, TD, TG | | | |
| AU 9875503 | A1 | 19981221 | AU 1998-75503 | 19980604 |
| JP 11049765 | A2 | 19990223 | JP 1998-155709 | 19980604 |
| EP 988289 | A2 | 20000329 | EP 1998-923128 | 19980604 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI | | | |
| PRIORITY APPLN. INFO.: | | | JP 1997-148325 | 19970605 |
| OTHER SOURCE(S): | MARPAT | 130:38285 | WO 1998-JP2482 | 19980604 |
| GI | | | | |



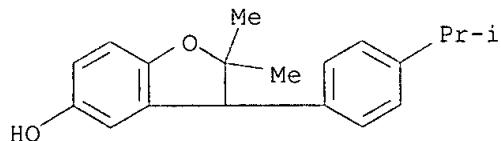


AB Title compds. I [R1, R2 = H, (un)substituted hydrocarbon group; or R1 and R2 form a 3- to 8-membered carbo- or heterocyclic ring which may be substituted; R3 = H, (un)substituted lower alkyl or arom. group; R4 = (un)substituted arom. or araliph. group, or acyl; X, Y = O or S which may

be oxidized; benzene ring may be further substituted] and their salts are disclosed. The compds. suppress .beta.-amyloid toxicity, and are thus useful as agents for treating or preventing neurodegenerative diseases such as Alzheimer's disease or Parkinsonism. Preps. of 33 compds. I and their intermediates are described. For instance, etherification of 3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-ol with 4-methoxybenzyl chloride using NaH in DMF gave 49% title compd. II. Seven example compds. gave 27.3-47.0% in vitro protection of human neuroblastoma SK-N-SH cells from .beta.-amyloid neurotoxicity.

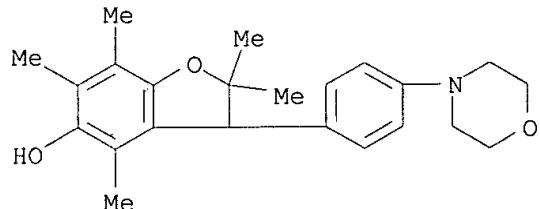
IT 216989-52-5P, 3-(4-Isopropylphenyl)-2,2-dimethyl-2,3-dihydrobenzofuran-5-ol 216989-53-6P, 2,2,4,6,7-Pentamethyl-3-[4-(4-morpholinyl)phenyl]-2,3-dihydrobenzofuran-5-ol 216989-54-7P, 2,2,4,6,7-Pentamethyl-3-[4-(4-methyl-1-piperazinyl)phenyl]-2,3-dihydrobenzofuran-5-ol 216989-63-8P, 3-(4-Isopropylphenyl)-2,2-dimethyl-2,3-dihydrobenzofuran-6-ol 216989-72-9P, 5-(2,4-Diaminophenoxy)-3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (intermediate; prepn. of benzofuran derivs. as agents for suppressing neurodegeneration)
 RN 216989-52-5 CA

RN 216989-52-5 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-[4-(1-methylethyl)phenyl]-(9CI) (CA INDEX NAME)



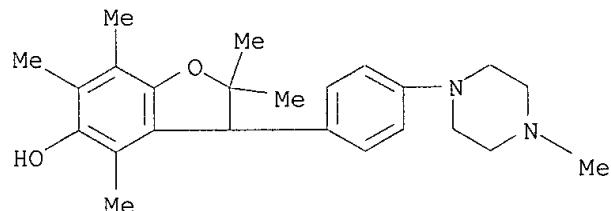
RN 216989-53-6 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(4-

morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



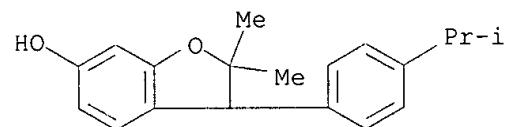
RN 216989-54-7 CA

CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(4-methyl-1-piperazinyl)phenyl]- (9CI) (CA INDEX NAME)



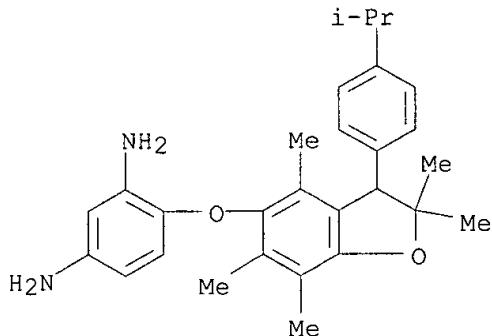
RN 216989-63-8 CA

CN 6-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)

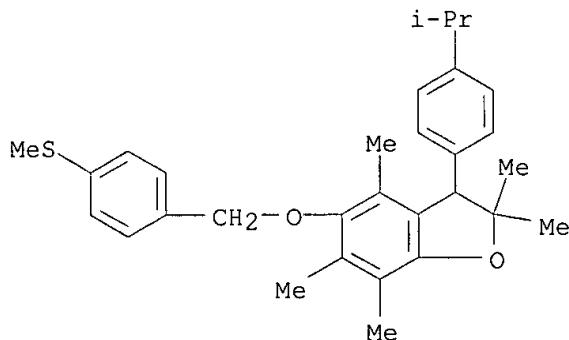


RN 216989-72-9 CA

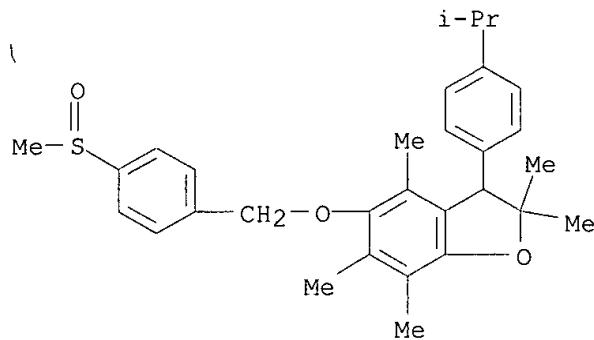
CN 1,3-Benzenediamine, 4-[(2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl)oxy]- (9CI) (CA INDEX NAME)



IT 216989-23-0P, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(4-methylthio)benzyl]oxy-2,3-dihydrobenzofuran 216989-24-1P,
 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(4-methylsulfinyl)benzyl]oxy-2,3-dihydrobenzofuran 216989-26-3P,
 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(3-phenyl-2-propen-1-yl)oxy]-2,3-dihydrobenzofuran 216989-30-9P, Methyl
 .alpha.-[(3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-yl)oxy]phenylacetate 216989-34-3P,
 3-(4-Isopropylphenyl)-5-[(2,4-dinitrophenyl)oxy]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran
 RL: BAC (Biological activity or effector, except adverse); RCT
 (Reactant);
 SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (product; prepn. of benzofuran derivs. as agents for suppressing neurodegeneration)
 RN 216989-23-0 CA
 CN Benzofuran,
 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-[(4-(methylthio)phenyl)methoxy]- (9CI) (CA INDEX NAME)



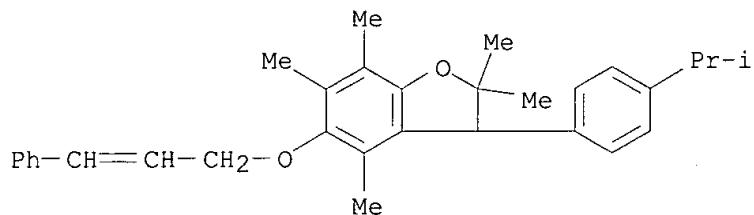
RN 216989-24-1 CA
 CN Benzofuran,
 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-[(4-(methylsulfinyl)phenyl)methoxy]- (9CI) (CA INDEX NAME)



RN 216989-26-3 CA

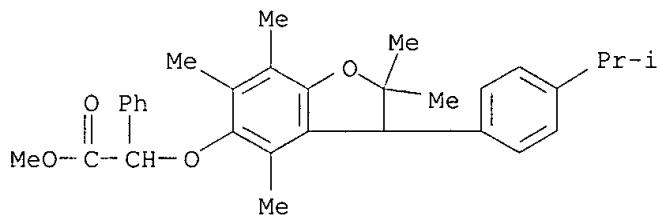
CN Benzofuran,

2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-[(3-phenyl-2-propenyl)oxy]- (9CI) (CA INDEX NAME)



RN 216989-30-9 CA

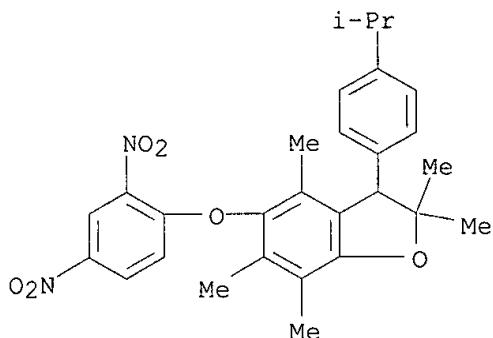
CN Benzeneacetic acid, .alpha.-[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



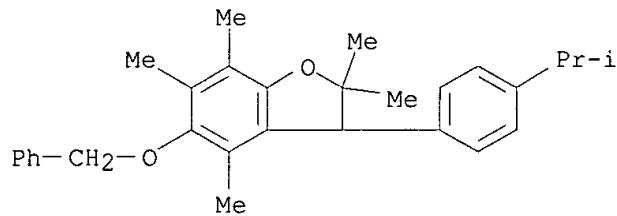
RN 216989-34-3 CA

CN Benzofuran,

5-(2,4-dinitrophenoxy)-2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)

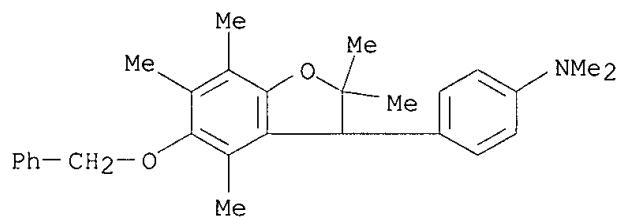


- IT **216989-15-0P**, 5-(Benzylxy)-3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-16-1P**,
 5-(Benzylxy)-3-[4-(dimethylamino)phenyl]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-18-3P**, 3-(4-Isopropylphenyl)-5-[(4-methoxybenzyl)oxy]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-19-4P**, 3-(4-Isopropylphenyl)-5-[(4-methoxybenzyl)oxy]-2,2-dimethyl-2,3-dihydrobenzofuran **216989-20-7P**,
- 3-[4-(Dimethylamino)phenyl]-5-[(4-methoxybenzyl)oxy]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-21-8P**, 5-[(4-Methoxybenzyl)oxy]-3-[4-(4-morpholinyl)phenyl]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-22-9P**, 5-[(4-Methoxybenzyl)oxy]-2,2,4,6,7-pentamethyl-3-[4-(4-methyl-1-piperazinyl)phenyl]-2,3-dihydrobenzofuran **216989-25-2P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(4-(methylsulfonyl)benzyl)oxy]-2,3-dihydrobenzofuran **216989-27-4P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-(2-quinolylmethoxy)-2,3-dihydrobenzofuran hydrochloride **216989-28-5P**, 5-[(3,3-Diphenylpropyl)oxy]-3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-29-6P**, Methyl 4-[[3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-yl]oxy]benzoate **216989-31-0P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(2-pyridylmethyl)oxy]-2,3-dihydrobenzofuran **216989-32-1P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(3-pyridylmethyl)oxy]-2,3-dihydrobenzofuran **216989-33-2P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(4-pyridylmethyl)oxy]-2,3-dihydrobenzofuran **216989-35-4P**, 5-[[2,4-Bis(acetylamino)phenyl]oxy]-3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran **216989-36-5P** **216989-37-6P** **216989-38-7P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(3-phenylpropyl)oxy]-2,3-dihydrobenzofuran **216989-39-8P**, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-5-[(2-phenylethyl)oxy]-2,3-dihydrobenzofuran **216989-43-4P**, 3-(4-Isopropylphenyl)-6-[(4-methoxybenzyl)oxy]-2,2-dimethyl-2,3-dihydrobenzofuran
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (product; prepn. of benzofuran derivs. as agents for suppressing neurodegeneration)
- RN 216989-15-0 CA
 CN Benzofuran,
 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-(phenylmethoxy)- (9CI) (CA INDEX NAME)



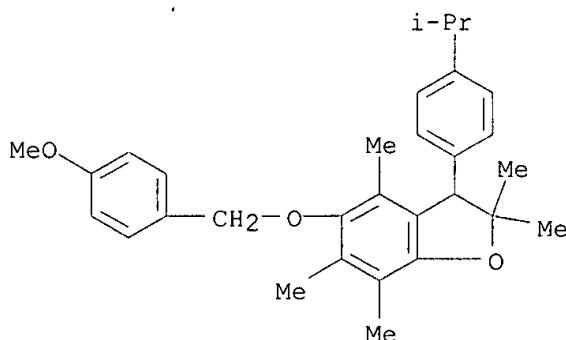
RN 216989-16-1 CA

CN Benzenamine, 4-[2,3-dihydro-2,2,4,6,7-pentamethyl-5-(phenylmethoxy)-3-benzofuranyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



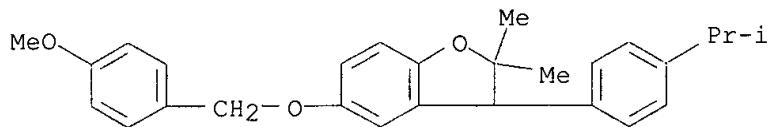
RN 216989-18-3 CA

CN Benzofuran,
2,3-dihydro-5-[(4-methoxyphenyl)methoxy]-2,2,4,6,7-pentamethyl-
3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



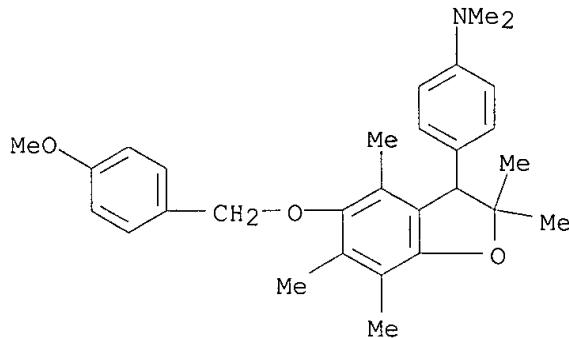
RN 216989-19-4 CA

CN Benzofuran,
2,3-dihydro-5-[(4-methoxyphenyl)methoxy]-2,2-dimethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



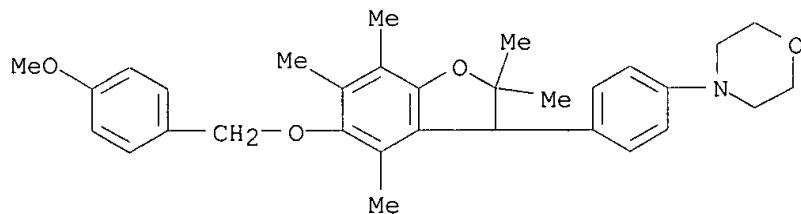
RN 216989-20-7 CA

CN Benzenamine, 4-[2,3-dihydro-5-[(4-methoxyphenyl)methoxy]-2,2,4,6,7-pentamethyl-3-benzofuranyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



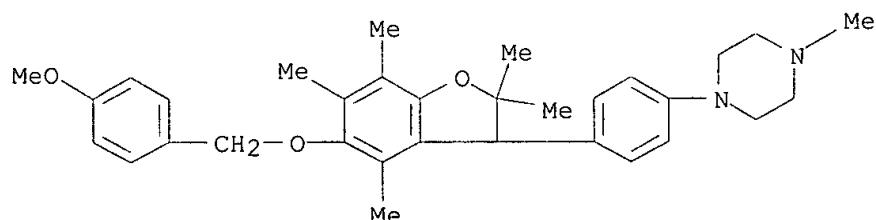
RN 216989-21-8 CA

CN Morpholine, 4-[4-[2,3-dihydro-5-[(4-methoxyphenyl)methoxy]-2,2,4,6,7-pentamethyl-3-benzofuranyl]phenyl]- (9CI) (CA INDEX NAME)

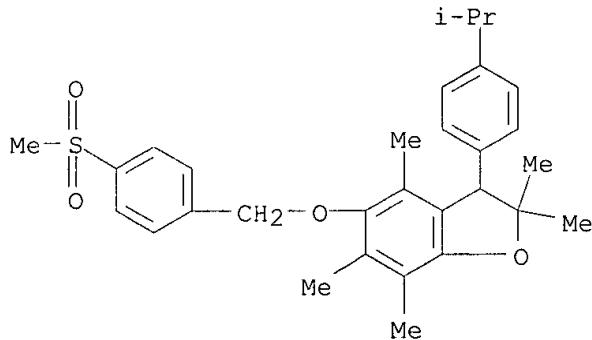


RN 216989-22-9 CA

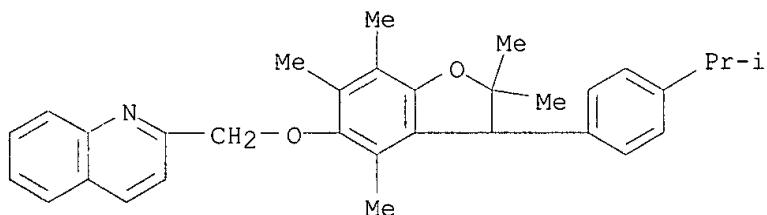
CN Piperazine, 1-[4-[2,3-dihydro-5-[(4-methoxyphenyl)methoxy]-2,2,4,6,7-pentamethyl-3-benzofuranyl]phenyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 216989-25-2 CA
CN Benzofuran,
2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-
5-[[4-(methylsulfonyl)phenyl]methoxy]- (9CI) (CA INDEX NAME)

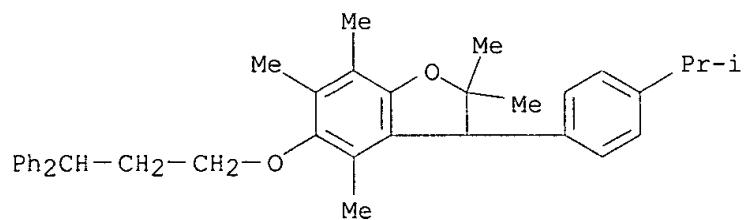


RN 216989-27-4 CA
CN Quinoline, 2-[[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]methyl]-, hydrochloride (9CI) (CA INDEX NAME)



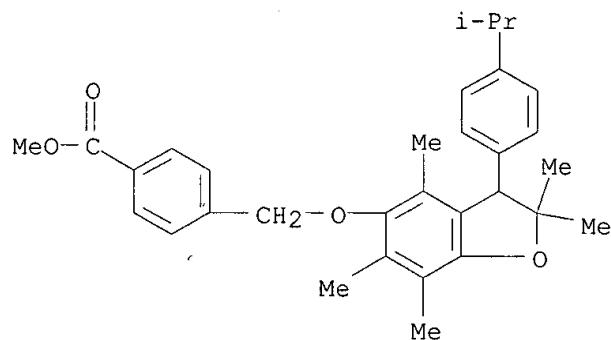
● HCl

RN 216989-28-5 CA
CN Benzofuran,
5-(3,3-diphenylpropoxy)-2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



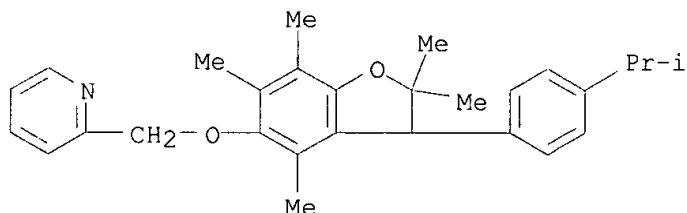
RN 216989-29-6 CA

CN Benzoic acid, 4-[[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



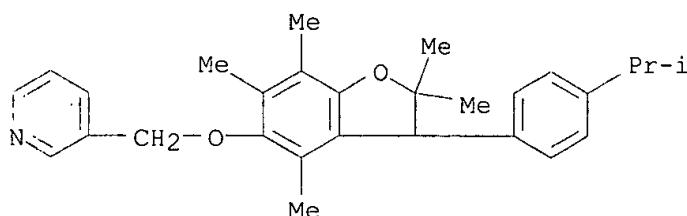
RN 216989-31-0 CA

CN Pyridine, 2-[[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]methyl]- (9CI) (CA INDEX NAME)



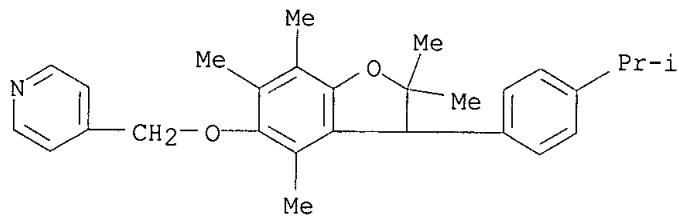
RN 216989-32-1 CA

CN Pyridine, 3-[[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]methyl]- (9CI) (CA INDEX NAME)



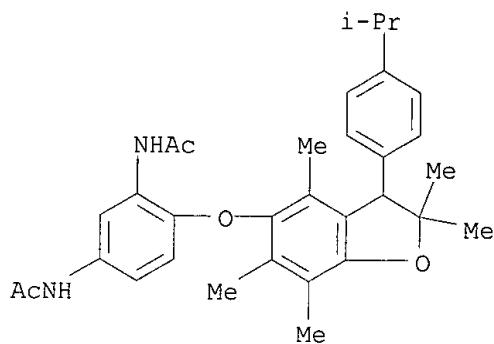
RN 216989-33-2 CA

CN Pyridine, 4-[[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]methyl]- (9CI) (CA INDEX NAME)



RN 216989-35-4 CA

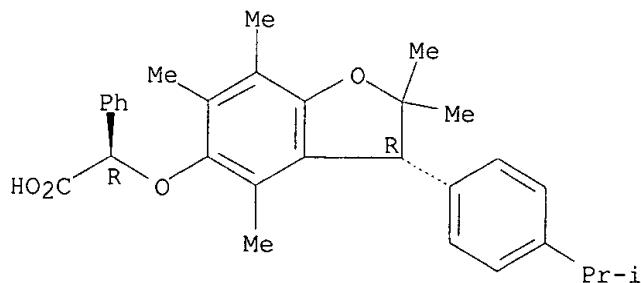
CN Acetamide, N,N'-[4-[[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]-1,3-phenylene]bis- (9CI) (CA INDEX NAME)



RN 216989-36-5 CA

CN Benzeneacetic acid,
.alpha.-[(3R)-2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]-, (.alpha.R)-rel- (9CI) (CA INDEX NAME)

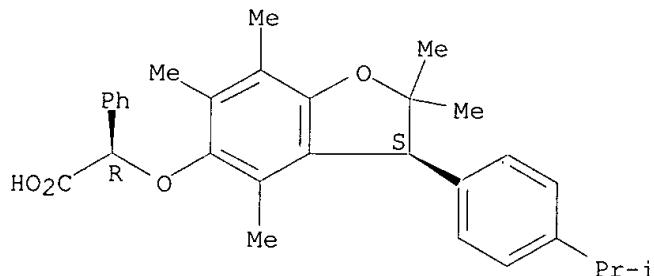
Relative stereochemistry.



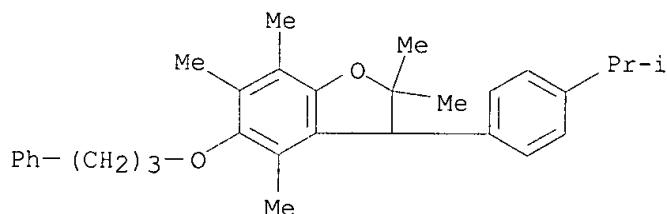
RN 216989-37-6 CA

CN Benzeneacetic acid,
.alpha.-[(3R)-2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl]oxy]-, (.alpha.S)-rel- (9CI) (CA INDEX NAME)

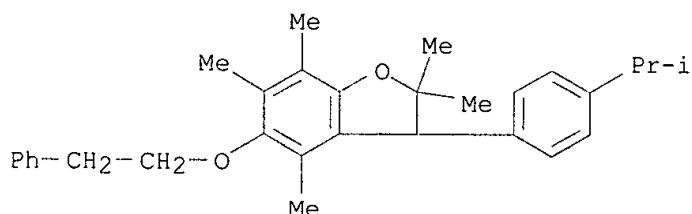
Relative stereochemistry.



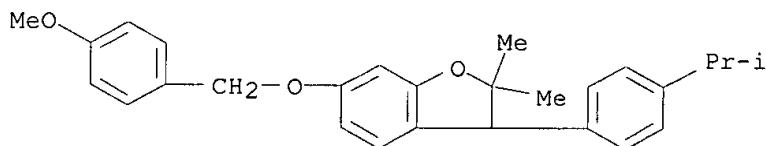
RN 216989-38-7 CA
CN Benzofuran,
2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-
5-(3-phenylpropoxy)- (9CI) (CA INDEX NAME)



RN 216989-39-8 CA
CN Benzofuran,
2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-
5-(2-phenylethoxy)- (9CI) (CA INDEX NAME)



RN 216989-43-4 CA
CN Benzofuran,
2,3-dihydro-6-[(4-methoxyphenyl)methoxy]-2,2-dimethyl-3-[4-(1-
methylethyl)phenyl]- (9CI) (CA INDEX NAME)



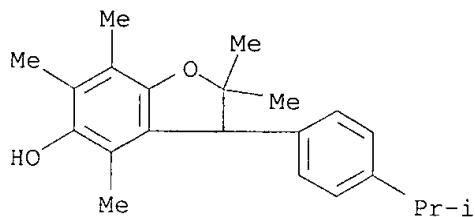
IT 116674-35-2, 3-(4-Isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-ol 116674-53-4, 3-[4-(Dimethylamino)phenyl]-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-ol

RL: RCT (Reactant)

(starting material; prepn. of benzofuran derivs. as agents for suppressing neurodegeneration)

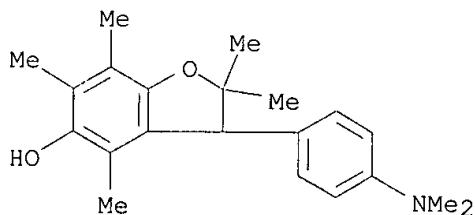
RN 116674-35-2 CA

CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 116674-53-4 CA

CN 5-Benzofuranol, 3-[4-(dimethylamino)phenyl]-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)

FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001

L1 STRUCTURE UPLOADED

L2 4 S L1

L3 119 S L2 FULL

FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001

L4 6 S L3
 L5 1 S L4 AND OHKAWA, S?/AU

=> s l4 not 15

L6 5 L4 NOT L5

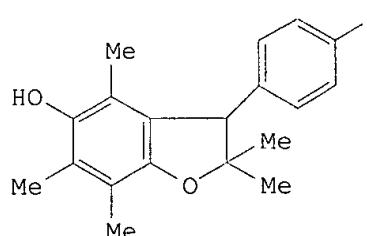
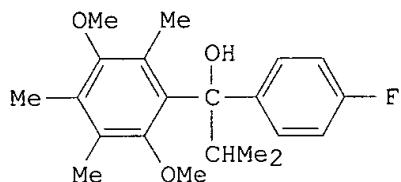
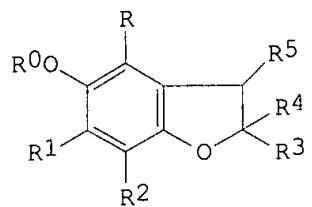
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L6 ANSWER 1 OF 5 CA COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 109:149335 CA
 TITLE: Preparation of 5-hydroxycoumaran derivatives as
 cardiovascular and antiallergy agents
 INVENTOR(S): Terao, Shinji; Maki, Yoshitaka
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: Eur. Pat. Appl., 39 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| EP 273647 | A1 | 19880706 | EP 1987-311122 | 19871217 |
| EP 273647 | B1 | 19920311 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| JP 01272578 | A2 | 19891031 | JP 1987-310346 | 19871207 |
| JP 08005871 | B4 | 19960124 | | |
| AT 73448 | E | 19920315 | AT 1987-311122 | 19871217 |
| DK 8706789 | A | 19880628 | DK 1987-6789 | 19871222 |
| US 4857516 | A | 19890815 | US 1987-136273 | 19871222 |
| HU 48609 | A2 | 19890628 | HU 1987-5988 | 19871223 |
| HU 206332 | B | 19921028 | | |
| AU 8783040 | A1 | 19880630 | AU 1987-83040 | 19871224 |
| AU 605818 | B2 | 19910124 | | |
| CA 1325635 | A1 | 19931228 | CA 1987-555354 | 19871224 |
| PRIORITY APPLN. INFO.: | | | JP 1986-313380 | 19861227 |
| | | | JP 1987-235491 | 19870918 |
| | | | EP 1987-311122 | 19871217 |

OTHER SOURCE(S): MARPAT 109:149335

GI



AB The title compds. [I; R = alkyl; R₀ = H, acyl; R₁-R₄ = (un)substituted alkyl; R₁R₂ = CH:CHCH:CH; R₃R₄ = polymethylene; R₅ = (un)substituted alkyl, aryl, heterocyclyl] were prep'd. 4-FC₆H₄COCHMe₂ (prepn. given) was added to 1-bromo-2,5-dimethoxy-3,4,6-trimethylbenzene in THF previously treated with BuLi and the mixt. stirred 1 h to give 92.3%

diphenylpropanol

II which was refluxed 18 h in 47 wt.% aq. HBr to give 74.8% title compd. III. The latter, at 100 mg/kg orally gave 93% inhibition of the excitatory behavior induced by spinal intrathecal injection of FeCl₂ soln.

in mice.

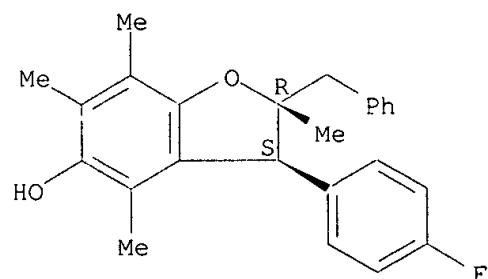
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116707-52-9P 116707-53-0P 116707-54-1P
116707-55-2P 116707-56-3P 116707-57-4P
116707-58-5P 116707-59-6P 116707-60-9P
116707-61-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, in prepn. of cardiovascular and antiallergic agents)

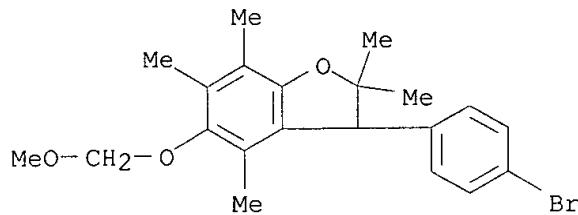
RN 116674-24-9 CA

CN 5-Benzofuranol, 3-(4-fluorophenyl)-2,3-dihydro-2,4,6,7-tetramethyl-2-(phenylmethyl)-, trans- (9CI) (CA INDEX NAME)

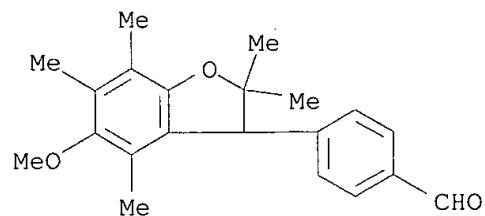
Relative stereochemistry.



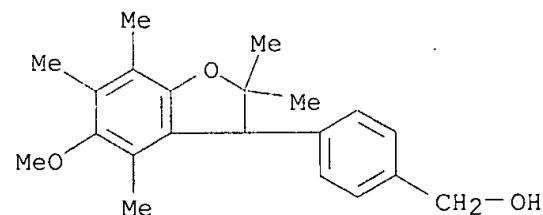
RN 116707-50-7 CA
CN Benzofuran, 3-(4-bromophenyl)-2,3-dihydro-5-(methoxymethoxy)-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



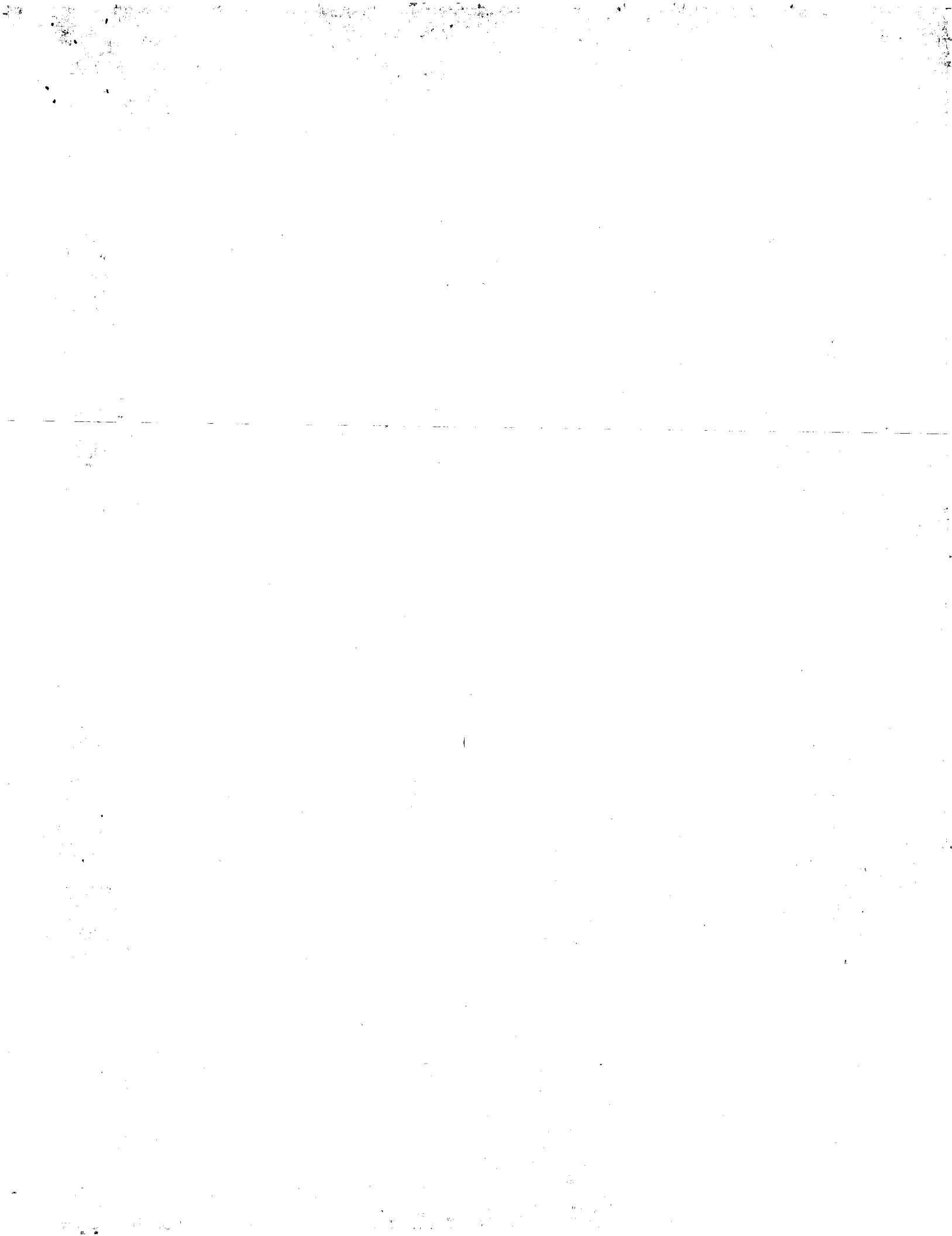
RN 116707-51-8 CA
CN Benzaldehyde, 4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)

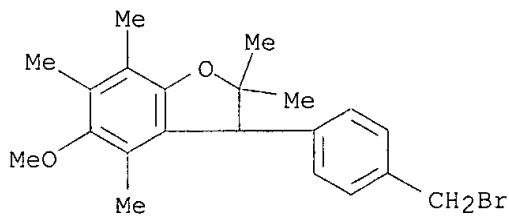


RN 116707-52-9 CA
CN Benzenemethanol, 4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)

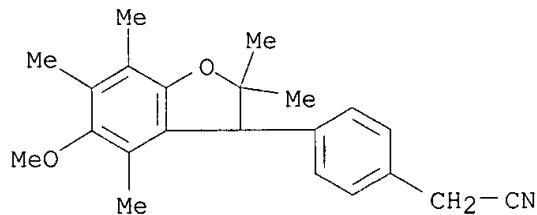


RN 116707-53-0 CA
CN Benzofuran, 3-[4-(bromomethyl)phenyl]-2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)

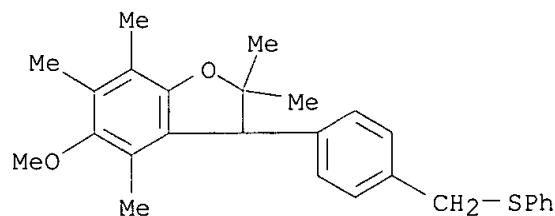




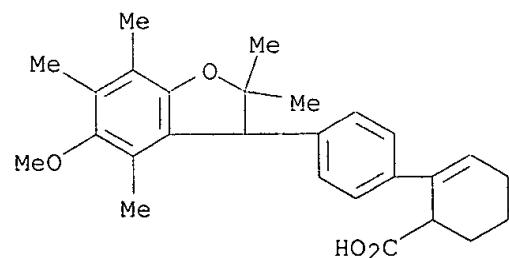
RN 116707-54-1 CA
CN Benzeneacetonitrile, 4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



RN 116707-55-2 CA
CN Benzofuran, 2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-[4-[(phenylthio)methyl]phenyl]- (9CI) (CA INDEX NAME)

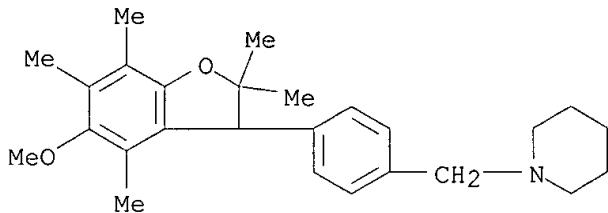


RN 116707-56-3 CA
CN 2-Cyclohexene-1-carboxylic acid, 2-[4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)phenyl]- (9CI) (CA INDEX NAME)



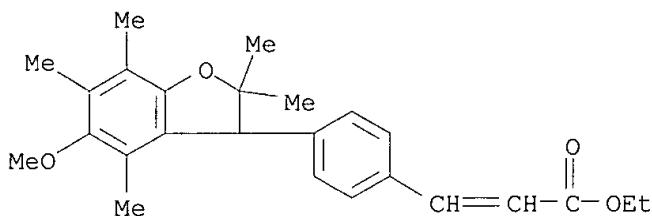
RN 116707-57-4 CA

CN Piperidine, 1-[{4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)phenyl]methyl}- (9CI) (CA INDEX NAME)



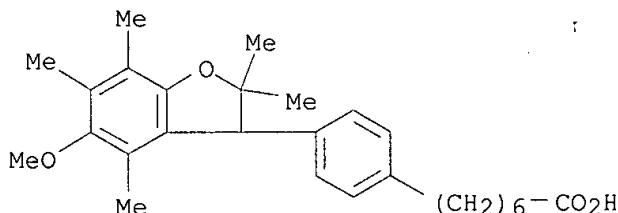
RN 116707-58-5 CA

CN 2-Propenoic acid, 3-[4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



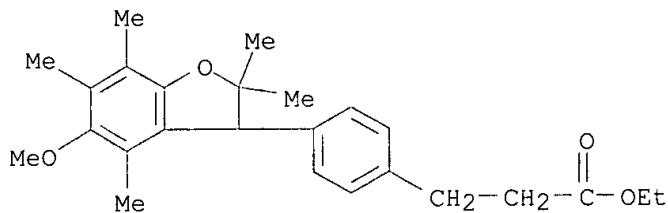
RN 116707-59-6 CA

CN Benzeneheptanoic acid, 4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



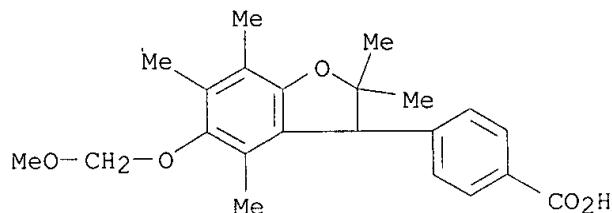
RN 116707-60-9 CA

CN Benzenepropanoic acid, 4-(2,3-dihydro-5-methoxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 116707-61-0 CA

CN Benzoic acid, 4-[2,3-dihydro-5-(methoxymethoxy)-2,4,6,7-pentamethyl-3-benzofuranyl]- (9CI) (CA INDEX NAME)



IT 116674-16-9P 116674-19-2P 116674-21-6P

116674-22-7P 116674-23-8P 116674-26-1P

116674-28-3P 116674-29-4P 116674-30-7P

116674-31-8P 116674-32-9P 116674-33-0P

116674-34-1P 116674-35-2P 116674-36-3P

116674-37-4P 116674-38-5P 116674-39-6P

116674-40-9P 116674-41-0P 116674-42-1P

116674-43-2P 116674-44-3P 116674-45-4P

116674-46-5P 116674-47-6P 116674-48-7P

116674-49-8P 116674-50-1P 116674-51-2P

116674-52-3P 116674-53-4P 116674-54-5P

116674-55-6P 116674-56-7P 116674-57-8P

116674-58-9P 116674-59-0P 116674-60-3P

116674-61-4P 116674-62-5P 116674-63-6P

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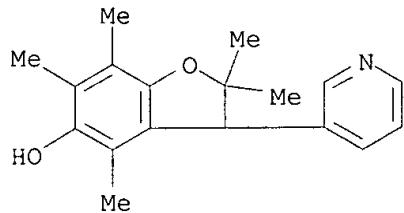
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116706-90-2P 116706-91-3P 116728-40-6P

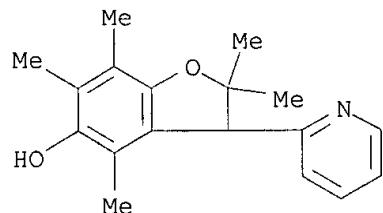
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as cardiovascular and antiallergic agent)

RN 116674-16-9 CA

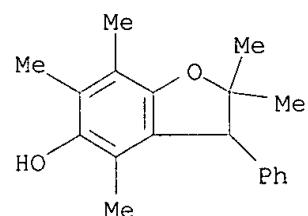
CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-(3-pyridinyl)- (9CI) (CA INDEX NAME)



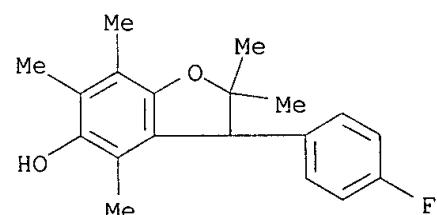
RN 116674-19-2 CA
CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-(2-pyridinyl)- (9CI)
(CA INDEX NAME)



RN 116674-21-6 CA
CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-phenyl- (9CI) (CA INDEX NAME)



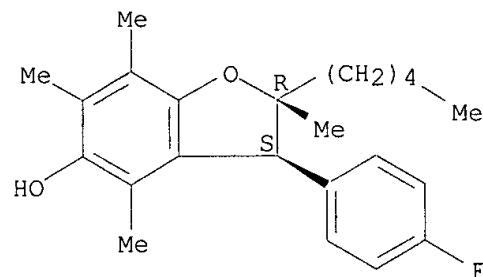
RN 116674-22-7 CA
CN 5-Benzofuranol, 3-(4-fluorophenyl)-2,3-dihydro-2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



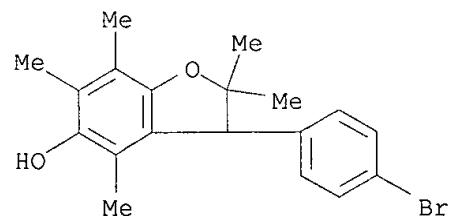
RN 116674-23-8 CA

CN 5-Benzofuranol, 3-(4-fluorophenyl)-2,3-dihydro-2,4,6,7-tetramethyl-2-pentyl-, trans- (9CI) (CA INDEX NAME)

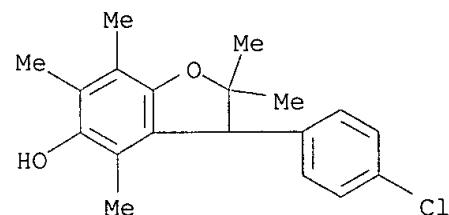
Relative stereochemistry.



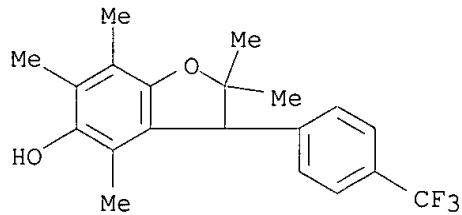
RN 116674-26-1 CA
CN 5-Benzofuranol, 3-(4-bromophenyl)-2,3-dihydro-2,4,6,7-pentamethyl- (9CI)
(CA INDEX NAME)



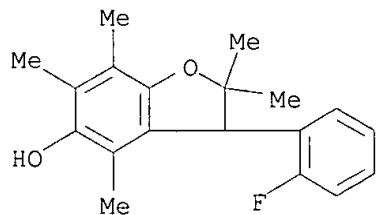
RN 116674-28-3 CA
CN 5-Benzofuranol, 3-(4-chlorophenyl)-2,3-dihydro-2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



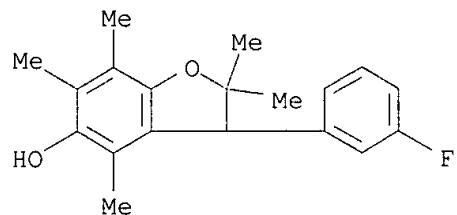
RN 116674-29-4 CA
CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



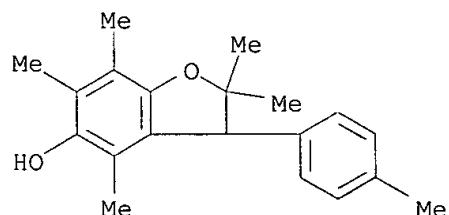
RN 116674-30-7 CA
CN 5-Benzofuranol, 3-(2-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



RN 116674-31-8 CA
CN 5-Benzofuranol, 3-(3-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)

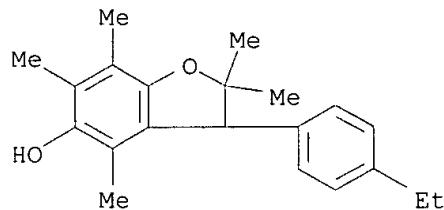


RN 116674-32-9 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(4-methylphenyl)- (9CI) (CA INDEX NAME)

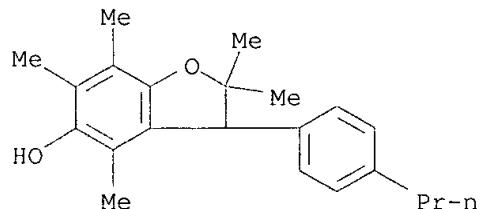


RN 116674-33-0 CA

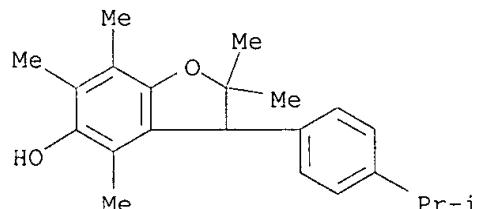
CN 5-Benzofuranol, 3-(4-ethylphenyl)-2,3-dihydro-2,4,6,7-pentamethyl-
(9CI) (CA INDEX NAME)



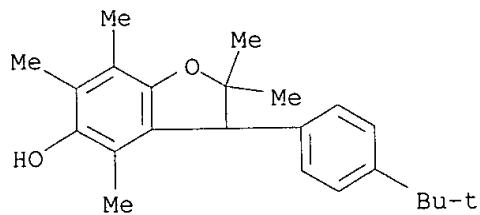
RN 116674-34-1 CA
CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-(4-propylphenyl)-
(9CI) (CA INDEX NAME)



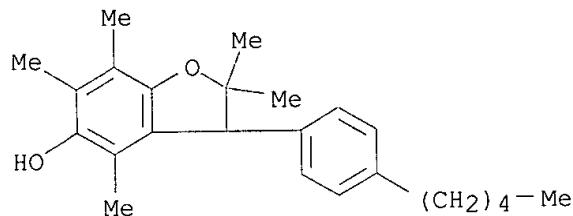
RN 116674-35-2 CA
CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



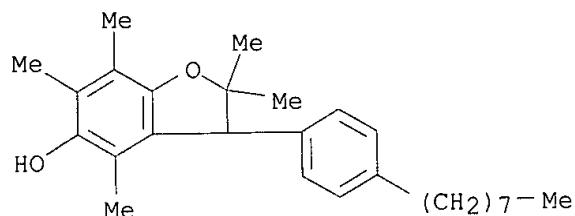
RN 116674-36-3 CA
CN 5-Benzofuranol, 3-[4-(1,1-dimethylethyl)phenyl]-2,3-dihydro-2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



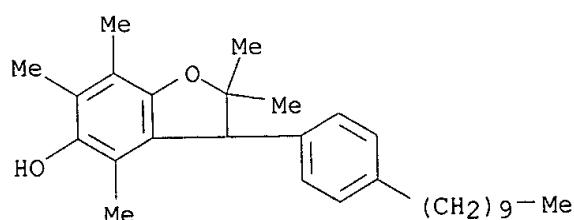
RN 116674-37-4 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(4-pentylphenyl)-(9CI) (CA INDEX NAME)



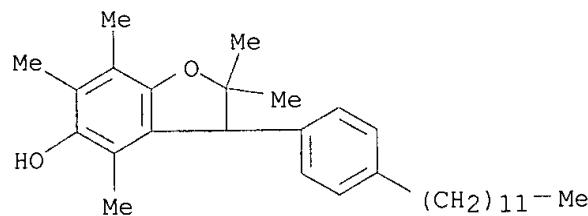
RN 116674-38-5 CA
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(4-octylphenyl)-(9CI) (CA INDEX NAME)



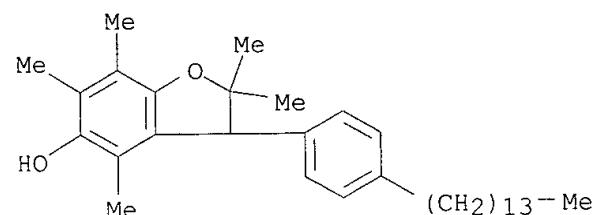
RN 116674-39-6 CA
CN 5-Benzofuranol, 3-(4-decylphenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-(9CI) (CA INDEX NAME)



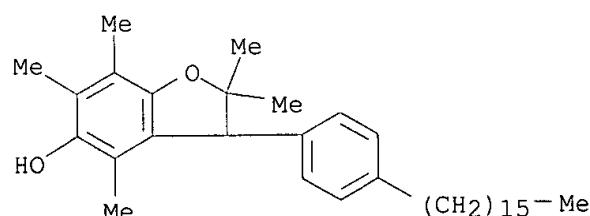
RN 116674-40-9 CA
CN 5-Benzofuranol, 3-(4-dodecylphenyl)-2,3-dihydro-2,4,6,7-pentamethyl-
(9CI) (CA INDEX NAME)



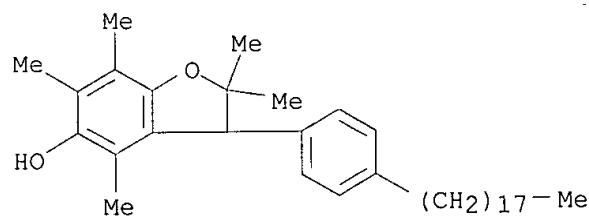
RN 116674-41-0 CA
CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-(4-tetradecylphenyl)-
(9CI) (CA INDEX NAME)



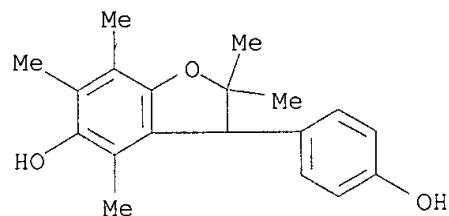
RN 116674-42-1 CA
CN 5-Benzofuranol, 3-(4-hexadecylphenyl)-2,3-dihydro-2,4,6,7-pentamethyl-
(9CI) (CA INDEX NAME)



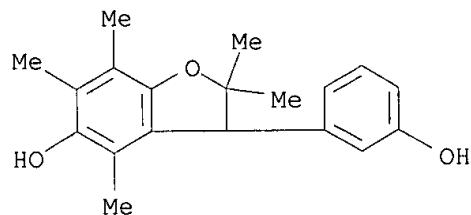
RN 116674-43-2 CA
CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-(4-octadecylphenyl)-
(9CI) (CA INDEX NAME)



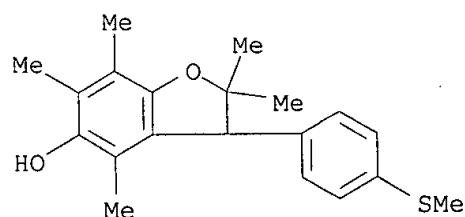
RN 116674-44-3 CA
CN 5-Benzofuranol, 2,3-dihydro-3-(4-hydroxyphenyl)-2,4,6,7-pentamethyl-
(9CI) (CA INDEX NAME)



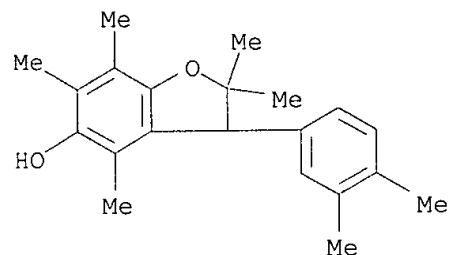
RN 116674-45-4 CA
CN 5-Benzofuranol, 2,3-dihydro-3-(3-hydroxyphenyl)-2,4,6,7-pentamethyl-
(9CI) (CA INDEX NAME)



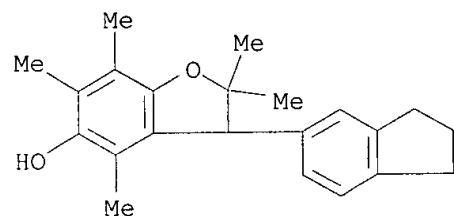
RN 116674-46-5 CA
CN 5-Benzofuranol,
2,3-dihydro-2,4,6,7-pentamethyl-3-[4-(methylthio)phenyl]-
(9CI) (CA INDEX NAME)



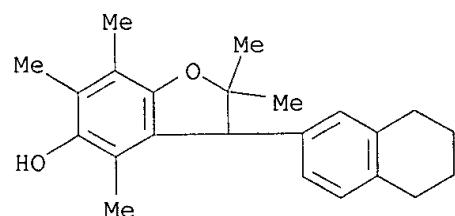
RN 116674-47-6 CA
CN 5-Benzofuranol, 3-(3,4-dimethylphenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-
(9CI) (CA INDEX NAME)



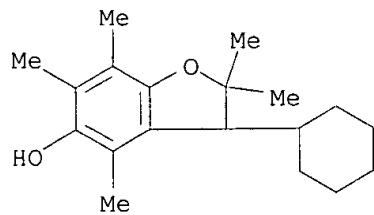
RN 116674-48-7 CA
CN 5-Benzofuranol, 3-(2,3-dihydro-1H-inden-5-yl)-2,3-dihydro-2,2,4,6,7-
pentamethyl- (9CI) (CA INDEX NAME)



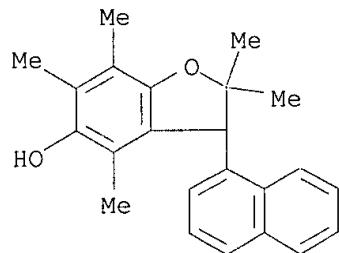
RN 116674-49-8 CA
CN 5-Benzofuranol,
2,3-dihydro-2,2,4,6,7-pentamethyl-3-(5,6,7,8-tetrahydro-2-
naphthalenyl)- (9CI) (CA INDEX NAME)



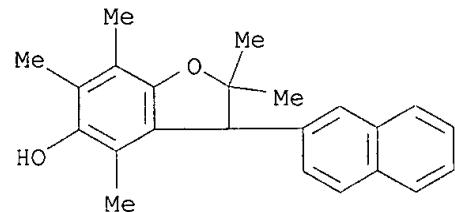
RN 116674-50-1 CA
CN 5-Benzofuranol, 3-cyclohexyl-2,3-dihydro-2,2,4,6,7-pentamethyl- (9CI)
(CA INDEX NAME)



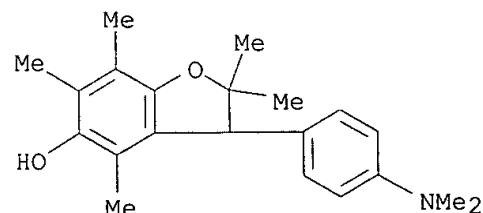
RN 116674-51-2 CA
CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-(1-naphthalenyl)-
(9CI) (CA INDEX NAME)



RN 116674-52-3 CA
CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-(2-naphthalenyl)-
(9CI) (CA INDEX NAME)

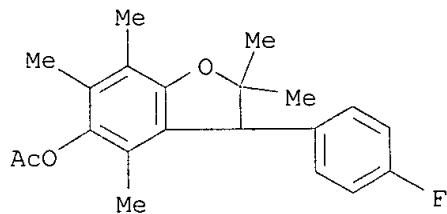


RN 116674-53-4 CA
CN 5-Benzofuranol, 3-[4-(dimethylamino)phenyl]-2,3-dihydro-2,4,6,7-
pentamethyl- (9CI) (CA INDEX NAME)



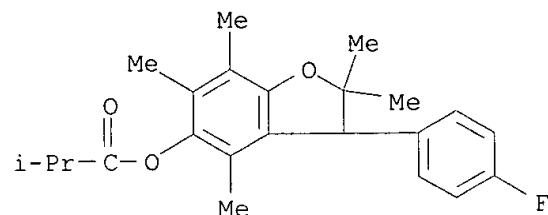
RN 116674-54-5 CA

CN 5-Benzofuranol, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-, acetate (9CI) (CA INDEX NAME)



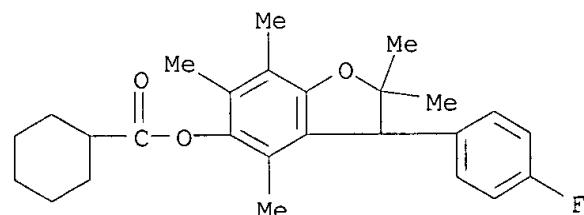
RN 116674-55-6 CA

CN Propanoic acid, 2-methyl-, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-5-benzofuranyl ester (9CI) (CA INDEX NAME)



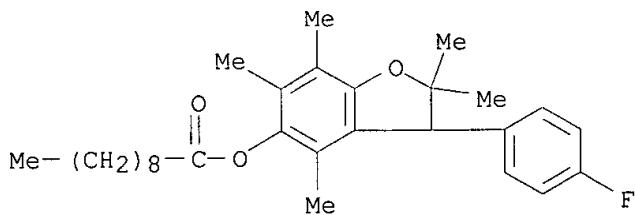
RN 116674-56-7 CA

CN Cyclohexanecarboxylic acid, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-5-benzofuranyl ester (9CI) (CA INDEX NAME)



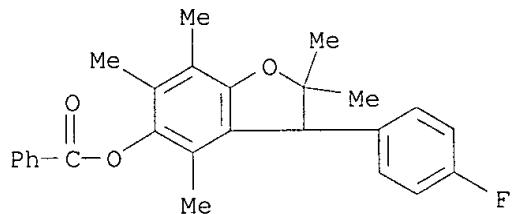
RN 116674-57-8 CA

CN Decanoic acid, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-5-benzofuranyl ester (9CI) (CA INDEX NAME)



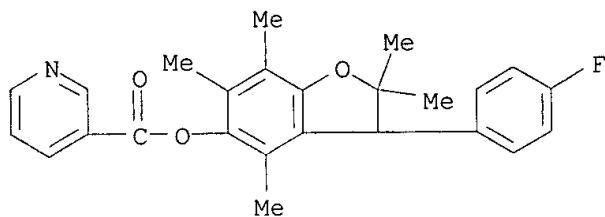
RN 116674-58-9 CA

CN 5-Benzofuranol, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-, benzoate (9CI) (CA INDEX NAME)



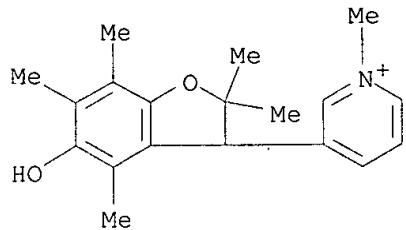
RN 116674-59-0 CA

CN 3-Pyridinecarboxylic acid, 3-(4-fluorophenyl)-2,3-dihydro-2,2,4,6,7-pentamethyl-5-benzofuranyl ester (9CI) (CA INDEX NAME)



RN 116674-60-3 CA

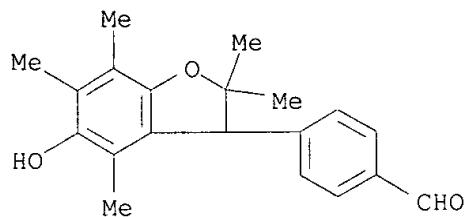
CN Pyridinium, 3-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)-1-methyl-, iodide (9CI) (CA INDEX NAME)



• I⁻

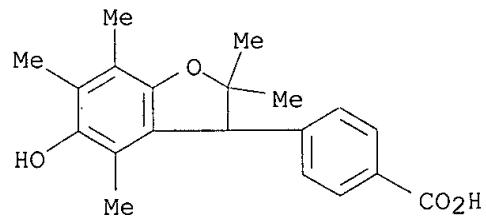
RN 116674-61-4 CA

CN Benzaldehyde, 4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



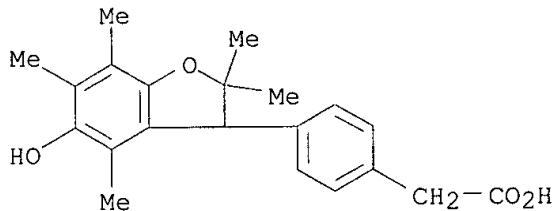
RN 116674-62-5 CA

CN Benzoic acid, 4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)

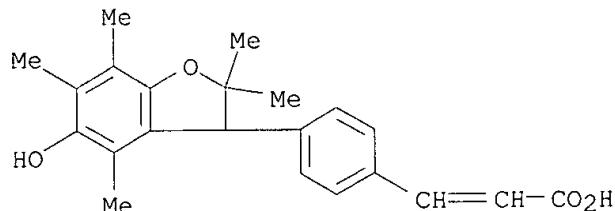


RN 116674-63-6 CA

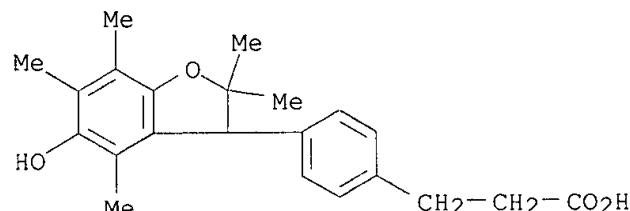
CN Benzeneacetic acid, 4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



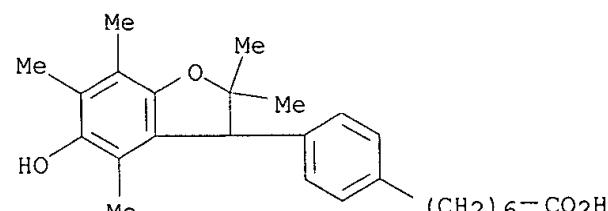
RN 116674-64-7 CA
 CN 2-Propenoic acid, 3-[4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)phenyl]- (9CI) (CA INDEX NAME)



RN 116674-65-8 CA
 CN Benzenepropanoic acid, 4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)

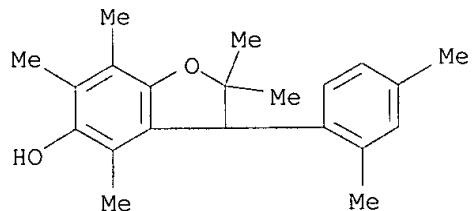


RN 116674-66-9 CA
 CN Benzeneheptanoic acid, 4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



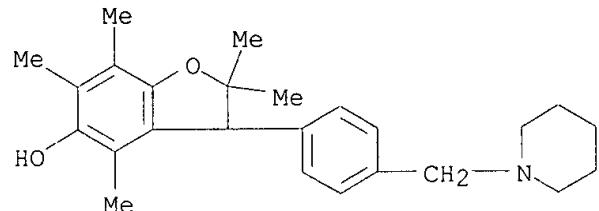
RN 116706-84-4 CA

CN 5-Benzofuranol, 3-(2,4-dimethylphenyl)-2,3-dihydro-2,4,6,7-pentamethyl-
(9CI) (CA INDEX NAME)



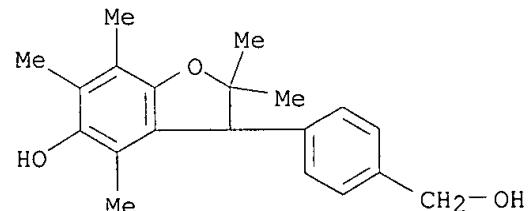
RN 116706-85-5 CA

CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-[4-(1-piperidinylmethyl)phenyl]- (9CI) (CA INDEX NAME)



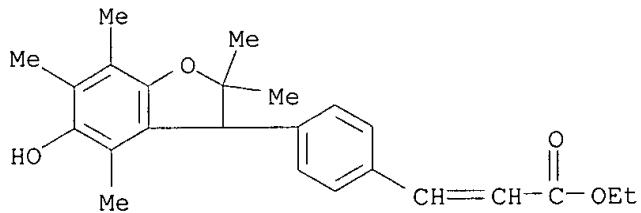
RN 116706-86-6 CA

CN 5-Benzofuranol, 2,3-dihydro-3-[4-(hydroxymethyl)phenyl]-2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



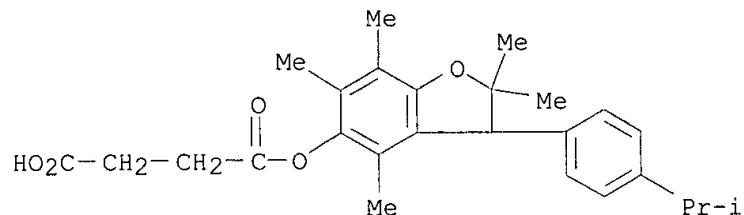
RN 116706-87-7 CA

CN 2-Propenoic acid, 3-[4-(2,3-dihydro-5-hydroxy-2,2,4,6,7-pentamethyl-3-benzofuranyl)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



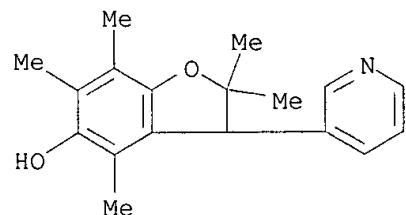
RN 116706-88-8 CA

CN Butanedioic acid, mono[2,3-dihydro-2,2,4,6,7-pentamethyl-3-[4-(1-methylethyl)phenyl]-5-benzofuranyl] ester (9CI) (CA INDEX NAME)



RN 116706-89-9 CA

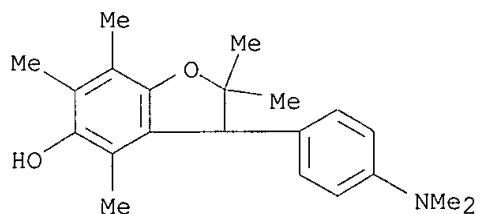
CN 5-Benzofuranol, 2,3-dihydro-2,2,4,6,7-pentamethyl-3-(3-pyridinyl)-, hydrochloride (9CI) (CA INDEX NAME)



• HCl

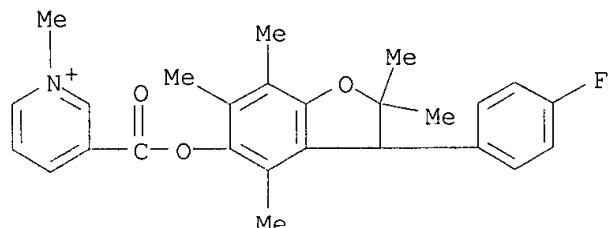
RN 116706-90-2 CA

CN 5-Benzofuranol, 3-[4-(dimethylamino)phenyl]-2,3-dihydro-2,2,4,6,7-pentamethyl-, hydrochloride (9CI) (CA INDEX NAME)



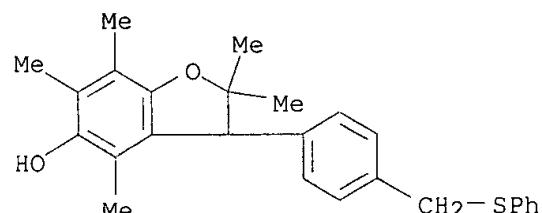
• HCl

RN 116706-91-3 CA
CN Pyridinium, 3-[[[3-(4-fluorophenyl)-2,3-dihydro-2,4,6,7-pentamethyl-5-benzofuranyl]oxy]carbonyl]-1-methyl-, iodide (9CI) (CA INDEX NAME)



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RN 116728-40-6 CA
CN 5-Benzofuranol, 2,3-dihydro-2,4,6,7-pentamethyl-3-[4-[(phenylthio)methyl]phenyl]- (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 5 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 108:112209 CA
TITLE: A process for the preparation of
2,3-dihydrobenzofuran derivatives from resorcinol derivatives
INVENTOR(S): Takahashi, Katsuya; Hashimoto, Isao

PATENT ASSIGNEE(S): Mitsui Petrochemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 62138487 | A2 | 19870622 | JP 1985-279193 | 19851213 |
| JP 04046273 | B4 | 19920729 | | |

GI For diagram(s), see printed CA Issue.

AB The title compds. (I), useful as intermediates for agrochems., pharmaceuticals, and perfumes, are prepd. from 1,3-dihydroxybenzenes

(II).

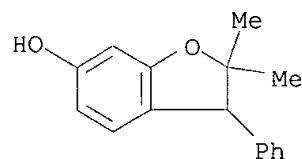
IT 113168-21-1P 113168-22-2P 113168-23-3P

113168-24-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, by cyclocondensation of resorcinol with ketone)

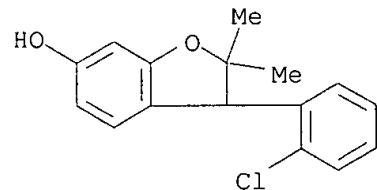
RN 113168-21-1 CA

CN 6-Benzofuranol, 2,3-dihydro-2,2-dimethyl- (9CI) (CA INDEX NAME)



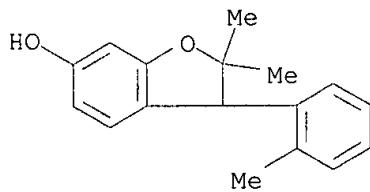
RN 113168-22-2 CA

CN 6-Benzofuranol, 3-(2-chlorophenyl)-2,3-dihydro-2,2-dimethyl- (9CI) (CA INDEX NAME)

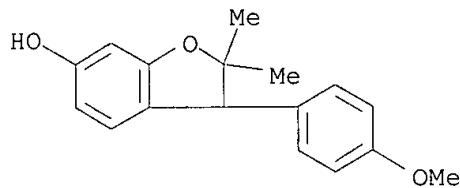


RN 113168-23-3 CA

CN 6-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-(2-methylphenyl)- (9CI) (CA INDEX NAME)



RN 113168-24-4 CA
 CN 6-Benzofuranol, 2,3-dihydro-3-(4-methoxyphenyl)-2,2-dimethyl- (9CI) (CA INDEX NAME)

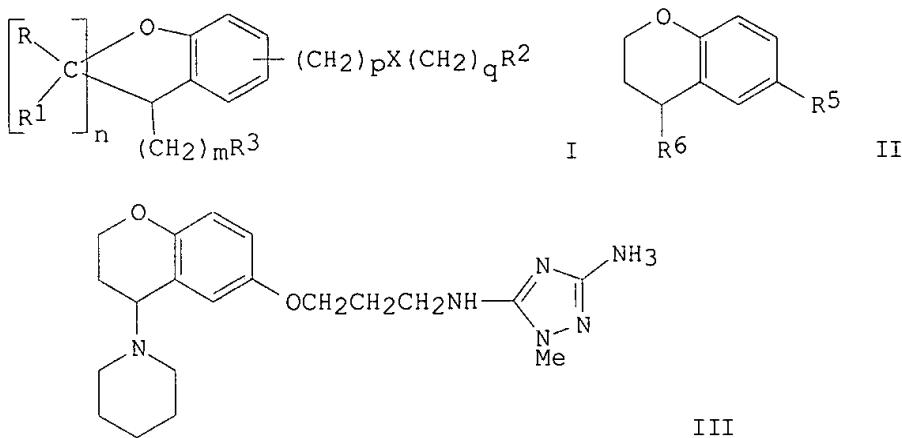


L6 ANSWER 3 OF 5 CA COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 105:226586 CA
 TITLE: Bicyclic benzoxy heterocyclic ethers and thioethers
 as
 INVENTOR(S): H2-receptor antagonists
 Kuhla, Donald Ernest; Campbell, Henry Flud; Studt,
 William Lyon; Neuenschwander, Kent William
 PATENT ASSIGNEE(S): Rorer International (Overseas), Inc., USA
 SOURCE: PCT Int. Appl., 79 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 8602550 | A1 | 19860509 | WO 1985-US2080 | 19851022 |
| W: AU, JP | | | | |
| RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE | | | | |
| US 4612309 | A | 19860916 | US 1984-664063 | 19841023 |
| AU 8550688 | A1 | 19860515 | AU 1985-50688 | 19851022 |
| AU 578199 | B2 | 19881013 | | |
| EP 198918 | A1 | 19861029 | EP 1985-905731 | 19851022 |
| R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| JP 62500593 | T2 | 19870312 | JP 1985-505036 | 19851022 |
| US 4668673 | A | 19870526 | US 1986-881122 | 19860702 |
| US 4722925 | A | 19880202 | US 1987-21147 | 19870303 |
| US 4777168 | A | 19881011 | US 1988-142084 | 19880107 |
| PRIORITY APPLN. INFO.: | | | US 1984-664063 | 19841023 |
| | | | WO 1985-US2080 | 19851022 |
| | | | US 1986-881122 | 19860702 |

US 1987-21147 19870303

GI



AB Title compds. I [R, R1 = H, alkyl; R2 = NHR4, amino, N-contg. heterocycle,
amidino; R3 = amino, amidino; R4 = amidino, thiocarboxamidino,
cyclobutendionyl, N- or N,S-contg. heterocycle; n = 1, 2; p = 0, 1; q =
2-4; m = 0-2; X = O, S, S(O), S(O)2], useful as H2-receptor antagonists
(no data), are prepd. Thus, 6-methoxy-4-benzopyranone was hydrogenated
to

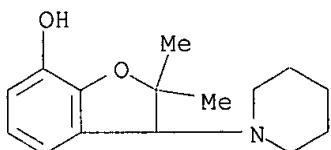
give benzopyran II (R5 = OMe, R6 = OH), which was mesylated and treated
with piperidine to give II (R5 = OMe, R6 = piperidino). This was
demethylated and alkylated to yield II (R5 = OCH2CH2CH2Br, R6 =
piperidino), which was treated with NaN3 and reduced to form II (R5 =
OCH2CH2CH2NH2, R6 = piperidino). This was cyclized with
PhCH:NNMeC(:NCN)SMe to give benzopyranyloxypropylaminotriazole III.

IT 105329-74-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and alkylation of)

RN 105329-74-6 CA

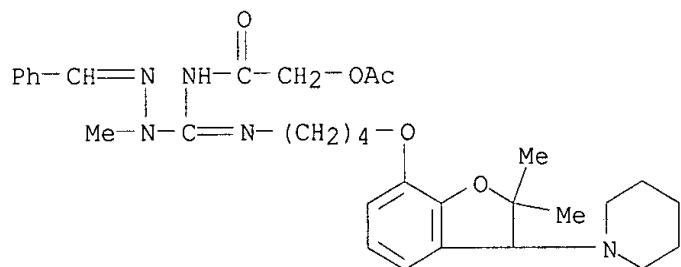
CN 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)- (9CI) (CA
INDEX NAME)



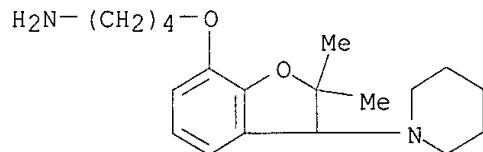
IT 105329-85-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

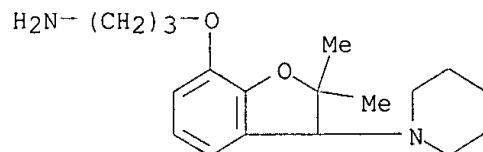
(prep. and cyclization of)
 RN 105329-85-9 CA
 CN Acetamide, 2-(acetyloxy)-N-[[[4-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]butyl]amino][methyl(phenylmethylenehydrazino)methylene]- (9CI) (CA INDEX NAME)



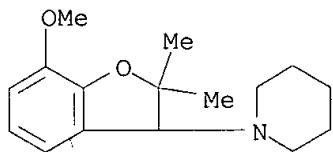
IT 105329-80-4P 105350-84-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prep. and cyclocondensation of, with carboximidothioic acid deriv.)
 RN 105329-80-4 CA
 CN 1-Butanamine, 4-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]- (9CI) (CA INDEX NAME)



RN 105350-84-3 CA
 CN 1-Propanamine, 3-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]- (9CI) (CA INDEX NAME)



IT 105329-73-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prep. and demethylation of)
 RN 105329-73-5 CA
 CN Piperidine, 1-(2,3-dihydro-7-methoxy-2,2-dimethyl-3-benzofuranyl)-, hydrochloride (9CI) (CA INDEX NAME)



• HCl

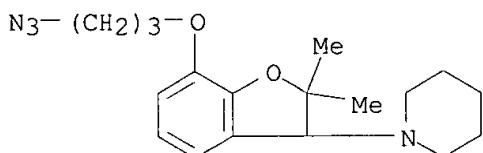
IT 105329-76-8P 105329-79-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prep. and hydride redn. of)

RN 105329-76-8 CA

CN Piperidine,

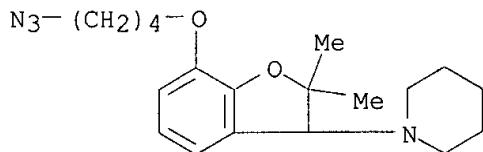
1-[7-(3-azidopropoxy)-2,3-dihydro-2,2-dimethyl-3-benzofuranyl]-
(9CI) (CA INDEX NAME)



RN 105329-79-1 CA

CN Piperidine,

1-[7-(4-azidobutoxy)-2,3-dihydro-2,2-dimethyl-3-benzofuranyl]-
(9CI) (CA INDEX NAME)



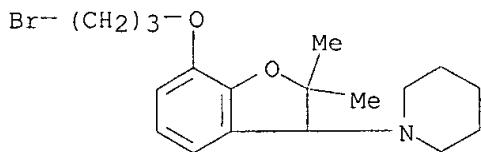
IT 105329-75-7P 105329-78-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prep. and reaction of, with azide)

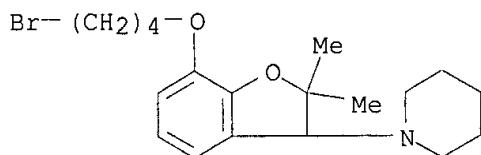
RN 105329-75-7 CA

CN Piperidine,

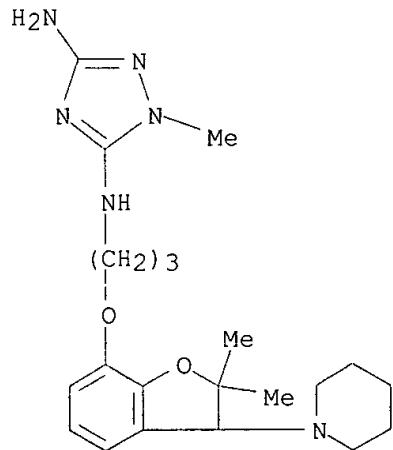
1-[7-(3-bromopropoxy)-2,3-dihydro-2,2-dimethyl-3-benzofuranyl]-
(9CI) (CA INDEX NAME)



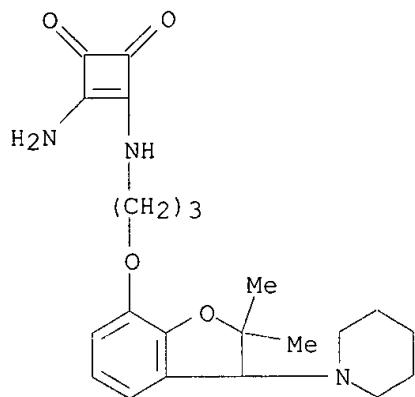
RN 105329-78-0 CA
 CN Piperidine,
 1-[7-(4-bromobutoxy)-2,3-dihydro-2,2-dimethyl-3-benzofuranyl]-
 (9CI) (CA INDEX NAME)



IT 105329-70-2P 105329-77-9P 105329-81-5P
 105329-82-6P 105329-83-7P 105329-84-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as H2 receptor antagonist for ulcer treatment)
 RN 105329-70-2 CA
 CN 1H-1,2,4-Triazole-3,5-diamine, N5-[3-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]propyl]-1-methyl- (9CI) (CA INDEX NAME)

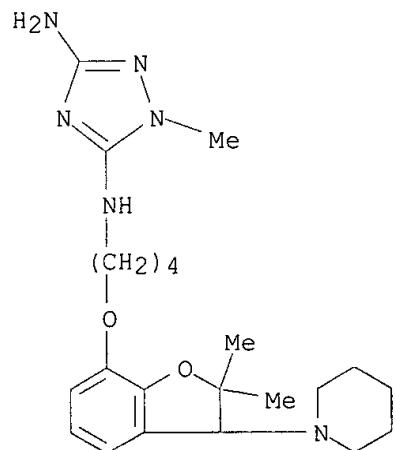


RN 105329-77-9 CA
 CN 3-Cyclobutene-1,2-dione, 3-amino-4-[[3-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]propyl]amino]- (9CI) (CA INDEX NAME)



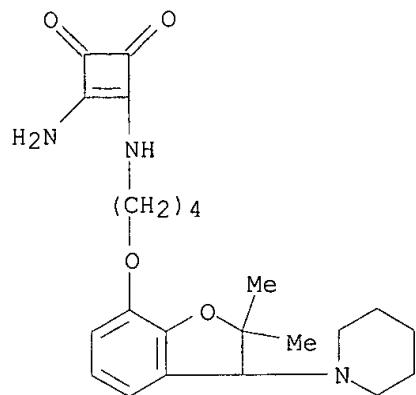
RN 105329-81-5 CA

CN 1H-1,2,4-Triazole-3,5-diamine, N5-[4-[(2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]butyl]-1-methyl- (9CI) (CA INDEX NAME)



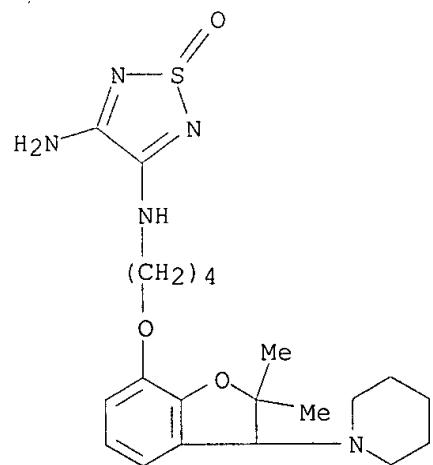
RN 105329-82-6 CA

CN 3-Cyclobutene-1,2-dione, 3-amino-4-[[4-[(2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]butyl]amino]- (9CI) (CA INDEX NAME)



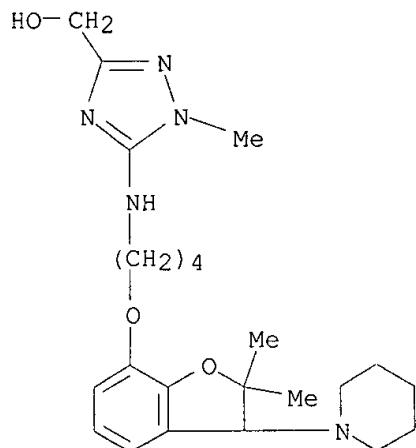
RN 105329-83-7 CA

CN 1,2,5-Thiadiazole-3,4-diamine, N-[4-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]butyl]-, 1-oxide (9CI) (CA INDEX NAME)



RN 105329-84-8 CA

CN 1H-1,2,4-Triazole-3-methanol, 5-[[4-[[2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)-7-benzofuranyl]oxy]butyl]amino]-1-methyl- (9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 5 CA COPYRIGHT 2001 ACS

ACCESSION NUMBER: 81:135855 CA

TITLE: Benzoheterocyclic derivatives. 15. Synthesis of benzofuran derivatives. 3

AUTHOR(S): Hirose, Noriyasu; Kuriyama, Shizuo; Sohda, Shigeru

CORPORATE SOURCE: Res. Lab., Eisai Co., Ltd., Tokyo, Japan

SOURCE: Yakugaku Zasshi (1974), 94(8), 905-12

CODEN: YKKZAJ

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

GI For diagram(s), see printed CA Issue.

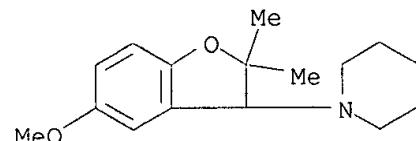
AB 3-Substituted amino- or aminomethyl-2,3-dihydrobenzofurans I (R = OCH₂CH₂NMe₂, substituted amino, substituted aminomethyl; R₁ = H, Me) were prep'd. Special emphasis was placed on the 5-position, which corresponds to the meta position of the phenethylamine skeleton. I (R = CN, R₁ = Me) was obtained in a good yield by cyanation of I (R = Br, R₁ = Me) with CuCN. The analgesic effect of these benzofuran derivs. was comparable to that of aminopyrine.

IT 53903-28-9P 53903-29-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 53903-28-9 CA

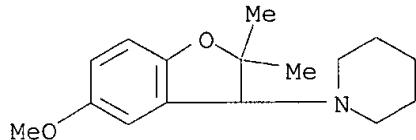
CN Piperidine, 1-(2,3-dihydro-5-methoxy-2,2-dimethyl-3-benzofuranyl)- (9CI)
(CA INDEX NAME)



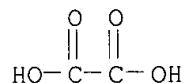
RN 53903-29-0 CA

CN Piperidine, 1-(2,3-dihydro-5-methoxy-2,2-dimethyl-3-benzofuranyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 53903-28-9
CMF C16 H23 N O2

CM 2

CRN 144-62-7
CMF C2 H2 O4

L6 ANSWER 5 OF 5 CA COPYRIGHT 2001 ACS

ACCESSION NUMBER:

75:63523 CA

TITLE: Photolysis of
2-(benzyloxy)-4-(dodecyloxy)benzophenone

and 2-isopropoxy-4-methoxybenzophenone

AUTHOR(S): Lappin, Gerald R.; Zannucci, J. S.

CORPORATE SOURCE: Tennessee Eastman Co. Div., Eastman Kodak Co.,
Kingsport, Tenn., USASOURCE: J. Org. Chem. (1971), 36(13), 1808-11
CODEN: JOCEAH

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB The photolysis of 2-(benzyloxy)-4-(dodecyloxy)benzophenone (I) or of
2-isopropoxy-4-methoxybenzophenone (II) proceeded mainly via ring closure
between the carbonyl C and the .alpha. carbon of the 2 substituent to
give6-(dodecyloxy)-2,3-dihydro-2,3-diphenyl-3-benzofuranol (III) or
2,3-dihydro-2,2-dimethyl-6-methoxy-3-phenyl-3-benzofuranol (IV), resp.The quantum efficiencies for disappearance of starting ketone and for
cyclization decreased significantly with an increase in solvent polarity.
The lifetime of the excited state, believed to be $3(n, \pi^*)$, was about

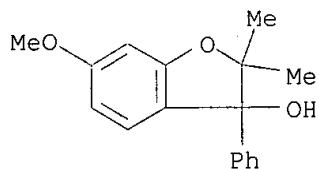
3

.times. 10-8 sec, unusually short for a benzophenone. Further photolysis
of I or III resulted in dehydration to give 6-(dodecyloxy)-2,3-
diphenylbenzofuran (V) and partial cyclization of V to
11-(dodecyloxy)benzo[b]phenanthro[9,10-d] furan, but further photolysis

of

IV gave only 2-hydroxy-4-methoxybenzophenone. Both I and II gave the
corresponding 4-alkoxy-2-hydroxybenzophenone as a minor product.

IT 28856-53-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prep. of)
 RN 28856-53-3 CA
 CN 3-Benzofuranol, 2,3-dihydro-6-methoxy-2,2-dimethyl-3-phenyl- (8CI) (CA
 INDEX NAME)



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| | | |
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| FULL ESTIMATED COST | 26.66 | 160.37 |
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| CA SUBSCRIBER PRICE | -3.36 | -3.36 |

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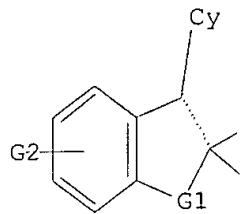
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 for details.

=>
 Uploading 9445193a.str

L7 STRUCTURE uploaded

=> d 17

L7 HAS NO ANSWERS
 L7 STR



G1 O,S

G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s 17

SAMPLE SEARCH INITIATED 17:24:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 7607 TO ITERATE

13.1% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 146921 TO 157359
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> s 18 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 133.25 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 17:24:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 152467 TO ITERATE

100.0% PROCESSED 152467 ITERATIONS 135 ANSWERS
SEARCH TIME: 00.00.12

L9 135 SEA SSS FUL L7

=> d his

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FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001

L1 STRUCTURE UPLOADED

L2 4 S L1

L3 119 S L2 FULL

FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001

L4 6 S L3
L5 1 S L4 AND OHKAWA, S?/AU
L6 5 S L4 NOT L5

FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001

L7 STRUCTURE uploaded
L8 0 S L7
L9 135 S L8 FULL

=> file ca

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 133.87 | 294.24 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -3.36 |

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FILE COVERS 1967 - 8 Mar 2001 VOL 134 ISS 12
FILE LAST UPDATED: 8 Mar 2001 (20010308/ED)

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=> s 19

L10 8 L9

=> d his

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FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001

L1 STRUCTURE uploaded
L2 4 S L1
L3 119 S L2 FULL

FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001

L4 6 S L3
L5 1 S L4 AND OHKAWA, S?/AU
L6 5 S L4 NOT L5

FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001

L7 STRUCTURE uploaded
L8 0 S L7
L9 135 S L8 FULL

FILE 'CA' ENTERED AT 17:24:35 ON 14 MAR 2001

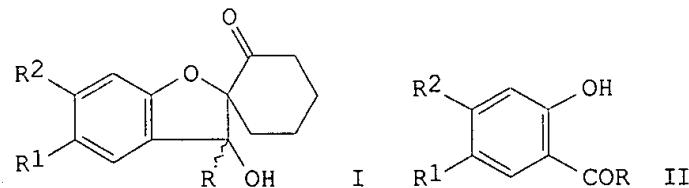
L10 8 S L9

=> s l10 not l4

L11 2 L10 NOT L4

=> d l11, ibib abs hitstr, 1-2

L11 ANSWER 1 OF 2 CA COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 119:270938 CA
 TITLE: An expedient route to spirobenzofurans
 AUTHOR(S): Sumathi, T.; Balasubramanian, K. K.
 CORPORATE SOURCE: Dep. Chem., Indian Inst. Technol., Madras, 600 036,
 India
 SOURCE: Tetrahedron Lett. (1993), 34(24), 3915-8
 CODEN: TELEAY; ISSN: 0040-4039
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 119:270938
 GI



AB The synthesis of spirobenzofurans I ($R = H, Me, Ph; R1 = H, Cl, Me, OMe; R2 = H, OMe$) via base-mediated spiroannulation of arom. aldehydes and ketones II with 2-chlorocyclohexanone is reported.

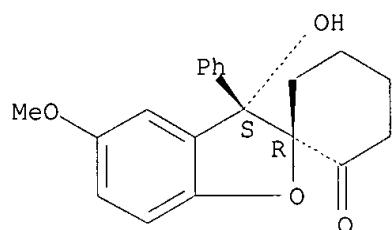
IT 151424-49-6P 151424-50-9P 151424-51-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 151424-49-6 CA

CN Spiro[benzofuran-2(3H),1'-cyclohexan]-2'-one,
3-hydroxy-5-methoxy-3-phenyl-
, cis- (9CI) (CA INDEX NAME)

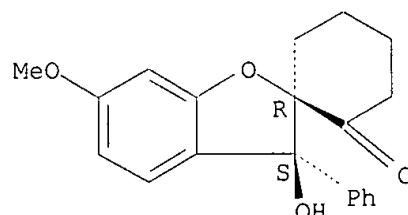
Relative stereochemistry.



RN 151424-50-9 CA

CN Spiro[benzofuran-2(3H),1'-cyclohexan]-2'-one,
3-hydroxy-6-methoxy-3-phenyl-
, cis- (9CI) (CA INDEX NAME)

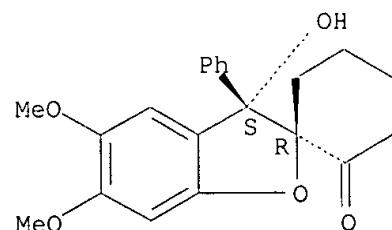
Relative stereochemistry.



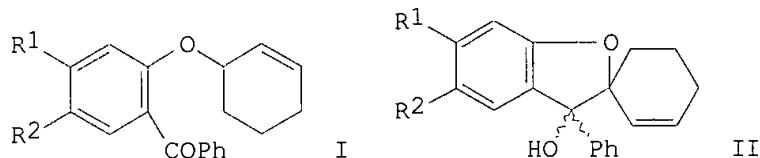
RN 151424-51-0 CA

CN Spiro[benzofuran-2(3H),1'-cyclohexan]-2'-one, 3-hydroxy-5,6-dimethoxy-3-phenyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L11 ANSWER 2 OF 2 CA COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 117:26220 CA
 TITLE: A photochemical entry to spirobenzofurans
 AUTHOR(S): Sumathi, T.; Balasubramanian, K. K.
 CORPORATE SOURCE: Dep. Chem., Indian Inst. Technol., Madras, 600 036,
 India
 SOURCE: Tetrahedron Lett. (1992), 33(16), 2213-16
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 117:26220
 GI



AB Synthesis of spirobenzofurans based on photochem. .delta. hydrogen abstraction is reported. Thus, irradn. in Et₂O of (cyclohexenyl)benzophenones I (R₁ = H, OMe; R₂ = H, Cl, Me) gave a mixt. of diastereomeric spirobenzofuranols II.

IT 141883-82-1P 141883-83-2P 141883-84-3P

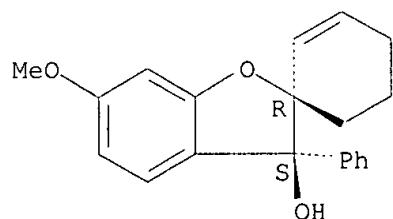
141883-85-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 141883-82-1 CA

CN Spiro[benzofuran-2(3H),1'-[2]cyclohexen]-3-ol, 6-methoxy-3-phenyl-, trans-
 (9CI) (CA INDEX NAME)

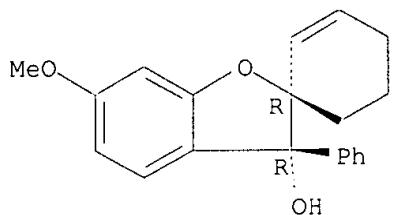
Relative stereochemistry.



RN 141883-83-2 CA

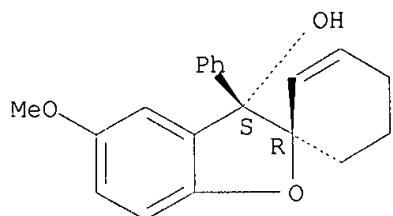
CN Spiro[benzofuran-2(3H),1'-[2]cyclohexen]-3-ol, 6-methoxy-3-phenyl-, cis-
 (9CI) (CA INDEX NAME)

Relative stereochemistry.



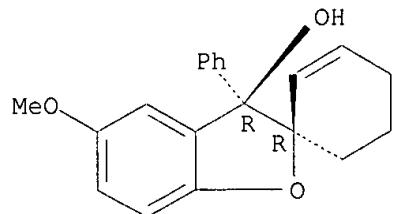
RN 141883-84-3 CA
 CN Spiro[benzofuran-2(3H),1'-[2]cyclohexen]-3-ol, 5-methoxy-3-phenyl-,
 trans-
 (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 141883-85-4 CA
 CN Spiro[benzofuran-2(3H),1'-[2]cyclohexen]-3-ol, 5-methoxy-3-phenyl-, cis-
 (9CI) (CA INDEX NAME)

Relative stereochemistry.



=> file ca

| | | |
|--|------------------|---------------|
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST | 8.29 | 302.53 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -1.12 | -4.48 |

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FILE COVERS 1967 - 8 Mar 2001 VOL 134 ISS 12
FILE LAST UPDATED: 8 Mar 2001 (20010308/ED)

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(FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)

FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001

L1 STRUCTURE UPLOADED
L2 4 S L1
L3 119 S L2 FULL

FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001

L4 6 S L3
L5 1 S L4 AND OHKAWA, S?/AU
L6 5 S L4 NOT L5

FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001

L7 STRUCTURE UPLOADED
L8 0 S L7
L9 135 S L8 FULL

FILE 'CA' ENTERED AT 17:24:35 ON 14 MAR 2001

L10 8 S L9
 L11 2 S L10 NOT L4

FILE 'CA' ENTERED AT 17:25:21 ON 14 MAR 2001

=> s 19

L12 8 L9

=> file caold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 0.31 | 302.84 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -4.48 |

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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=> d his

(FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)

FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001
 STRUCTURE uploaded

L1 4 S L1
 L2 119 S L2 FULL

FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001

L4 6 S L3
 L5 1 S L4 AND OHKAWA, S?/AU
 L6 5 S L4 NOT L5

FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001

L7 STRUCTURE uploaded
 L8 0 S L7

L9 135 S L8 FULL
FILE 'CA' ENTERED AT 17:24:35 ON 14 MAR 2001
L10 8 S L9
L11 2 S L10 NOT L4
FILE 'CA' ENTERED AT 17:25:21 ON 14 MAR 2001
L12 8 S L9
FILE 'CAOLD' ENTERED AT 17:25:37 ON 14 MAR 2001
=> s 19
L13 0 L9
=> d his

(FILE 'HOME' ENTERED AT 17:20:08 ON 14 MAR 2001)
FILE 'REGISTRY' ENTERED AT 17:20:11 ON 14 MAR 2001
L1 STRUCTURE uploaded
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L3 119 S L2 FULL
FILE 'CA' ENTERED AT 17:20:57 ON 14 MAR 2001
L4 6 S L3
L5 1 S L4 AND OHKAWA, S?/AU
L6 5 S L4 NOT L5
FILE 'REGISTRY' ENTERED AT 17:23:30 ON 14 MAR 2001
L7 STRUCTURE uploaded
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L9 135 S L8 FULL
FILE 'CA' ENTERED AT 17:24:35 ON 14 MAR 2001
L10 8 S L9
L11 2 S L10 NOT L4
FILE 'CA' ENTERED AT 17:25:21 ON 14 MAR 2001
L12 8 S L9
FILE 'CAOLD' ENTERED AT 17:25:37 ON 14 MAR 2001
L13 0 S L9
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---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.31 | 303.15 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -4.48 |

STN INTERNATIONAL LOGOFF AT 17:26:03 ON 14 MAR 2001